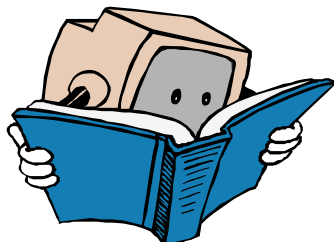


HITACHI

SM006



SERVICE MANUAL MANUEL D'ENTRETIEN WARTUNGSHANDBUCH

42PD7200(PW2)
42PD7A10(PW2)
42PD7200A(PW2)
42PD7A10A(PW2)

CAUTION:

Before servicing this chassis, it is important that the service technician read the "Safety Precautions" and "Product Safety Notices" in this service manual.

ATTENTION:

Avant d'effectuer l'entretien du châassis, le technicien doit lire les «Précautions de sécurité» et les «Notices de sécurité du produit» présentés dans le présent manuel.

VORSICHT:

Vor Öffnen des Gehäuses hat der Service-Ingenieur die „Sicherheitshinweise“ und „Hinweise zur Produktsicherheit“ in diesem Wartungshandbuch zu lesen.

Data contained within this Service manual is subject to alteration for improvement.

Les données fournies dans le présent manuel d'entretien peuvent faire l'objet de modifications en vue de perfectionner le produit.

Die in diesem Wartungshandbuch enthaltenen Spezifikationen können sich zwecks Verbesserungen ändern.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

Plasma Television



March 2005

CAUTION FOR SAFETY





Please read this page before repair the monitor.









This page explains to following items for keep the safety of set and prevent to accident during repair work.

- We explain by symbol at happen the damage or injury when took wrong repair.

 Warning	This symbol means "possible to die or heavy damage"
 Caution	This symbol means "possible to damage or something will break"

- We made the symbol as below, which are kind of following items.

	This symbol means "CAUTION"		This symbol means "MUST"
	This symbol means "POSSIBLE to ELECTRIC SHOCK"		This symbol means "DO NOT"

 WARNING			
■ Should be follows to instructions.  We indicates to cabinet, chassis and parts by label, which are special attention part. Please follow to note and [Safety Instructions] of User's Manual.		■ Should be kept same style of wiring or component.  Monitor uses tubes or tapes, which made by insulator, and some components are keep distance from surface of PWB for safety. Internal leads kept from hot part or high voltage part by clamper or styling, so please return to original condition for prevent to electric shock or fire.	
■ Prevent the electric shock.  Please take care during working because monitor has high voltage part and power supply part. Possible to die if you tough to these place by miss take. Please disconnect power plug during overhaul, reassemble or change parts. You will die or take damage by electric shock if you touch to live part.		■ Should be done safety check after finished.  Every part (removed screws, component and wiring) should be returned to previous condition. Check around repair position for make damage by miss take and measure the insulated impedance by meg-ohm meter. Confirm the value of impedance, that value is more than 4M ohm. It is reason for electric shock or fire if that value is less than 4M ohm.	
■ Use recommended components.  Please use to same characteristic component, which is same as previous for your safety and keep reliability especially marked by  in parts list and circuit diagram. It is reason of electric shock or fire if you use non-recommended component.		■ Nobody can check and repair to the code and combination circuit of HDCP.  Never remove the shield case, which is assembled to the code and combination circuit of HDCP.	

PRECAUTIONS

How to clean the plasma screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.

To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

1. Features

Large-screen, high-definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 1024 (H) x 1024 (V) pixels, creates a high-definition, large-screen(aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

High Performance Digital Processor

A wide range of input signals can be handed,including composite, component,and HDMI.High Definition Digital Processor creates the fine-textured image with dynamic contrast. In addition, it corresponds to a broad array of personal computer signals, from 640 x 400 and 640 x 480 VGA to 1600 x 1200 UXGA.(Analog Input)

Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Power saving system

When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

Connecting to an Audio Visual Device

- Three SCART terminals, a composite/S Terminal*¹, a component terminal*², a HDMI terminal and have been added. A composite video output terminal is also provided as a monitoring output.

*¹ A composite/S terminal = A side input

- A wide range of devices other than personal computers can also be connected.
- A RGB input is possible to switch to component signal from the Menu screen.

Power Swivel Feature

It allows to turn the plasma display left or right within ± 30 degree using the remote control.

42PD7200 (PW2)

2. Specifications

Panel	Display dimensions	Approx. 42 inches (922 (H) x 522 (V) mm, diagonal 1059mm)
	Resolution	1024(H) x 1024 (V) pixels
Net dimensions (excluding Speakers/Stand)		1050 (W) x 676 (H) x 110 (D) mm
Net weight (excluding Speakers/Stand)		37.0kg
Ambient conditions	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 40°C
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)
Power supply		AC100 - 240V, 50/60Hz
Power consumption/at standby		380W / <3W
Audio output		speaker 12W + 12W (6Ω)
(RGB input)		
Input terminals		RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)
Input signals		0.7 V/1.0 Vp-p, analog RGB (Recommended Signal) 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/50*1, 720p/60
Sync signals		H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]
(Video input)		
Input terminals		AV1: composite video/S video/L/R audio input terminal (SCART) AV2: composite video/RGB/L/R audio input terminal (SCART) AV3: composite video/RGB/L/R audio input terminal (SCART) AV4: composite video/Y/Pb/Pr video/L/R audio input terminal (RCA) AV5: composite video/S video/L/R audio input terminal (RCA) AV6: HDMI input terminal
Input signals		AV1: PAL, SECAM, NTSC3.58, NTSC4.43 AV2: PAL, SECAM, NTSC3.58, NTSC4.43, RGB AV3: PAL, SECAM, NTSC3.58, NTSC4.43, RGB AV4: PAL, SECAM, NTSC3.58, NTSC4.43 AV4: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60, AV5: PAL, SECAM, NTSC3.58, NTSC4.43 AV6: HDMI input signal
Output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (3.5mm Stereo Mini Jack)
(RF input)		
Input terminals		ANT : 75Ω Unbalanced
RF Video System		PAL B, G, H / I / D, K SECAM B, G / K1 / L, L' / (D, K)*2

*1 720/50 is supported by RGB1(DVI-STB)

*2 The SECAM D,K system might not be normally received, depending on the model.

Applicable video signals for each input terminal

Terminal	RCA/S-video/SCART				HDMI	DVI		D-sub	
	CVBS	S-video	Component	SCART (RGB)		PC	STB	RGB	Component
AV1	○	○							
AV2	○			○					
AV3	○			○					
AV4	○		○						
AV5	○	○							
AV6					○				
RGB1						○	○		
RGB2								○	○

(○:Available)

3. Service points

● Lead free solder

This product uses lead free solder (unleaded) to help preserve the environment. Please read these instructions before attempting any soldering work.

Caution: Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead free solder can splatter at high temperatures (600°C).

■ Lead free solder indicator

Printed circuit boards using lead free solder are engraved with an "F."

■ Properties of lead free solder

The melting point of lead free solder is 40-50°C higher than leaded solder.

■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended.

Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

Precautions when using leaded solder

- Remove all lead free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead free solder has been completely melted (do not apply the soldering iron without solder).

■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended.

The melting point of lead free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

Recommended soldering iron:

- Soldering iron with temperature control function (temperature range: 320-450°C)

Recommended temperature range per part:

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320°C±30°C
Mounting (chips) on empty PCB	380°C±30°C
Chassis, metallic shield, etc.	420°C±30°C

The PWB assembly which has used lead free solder

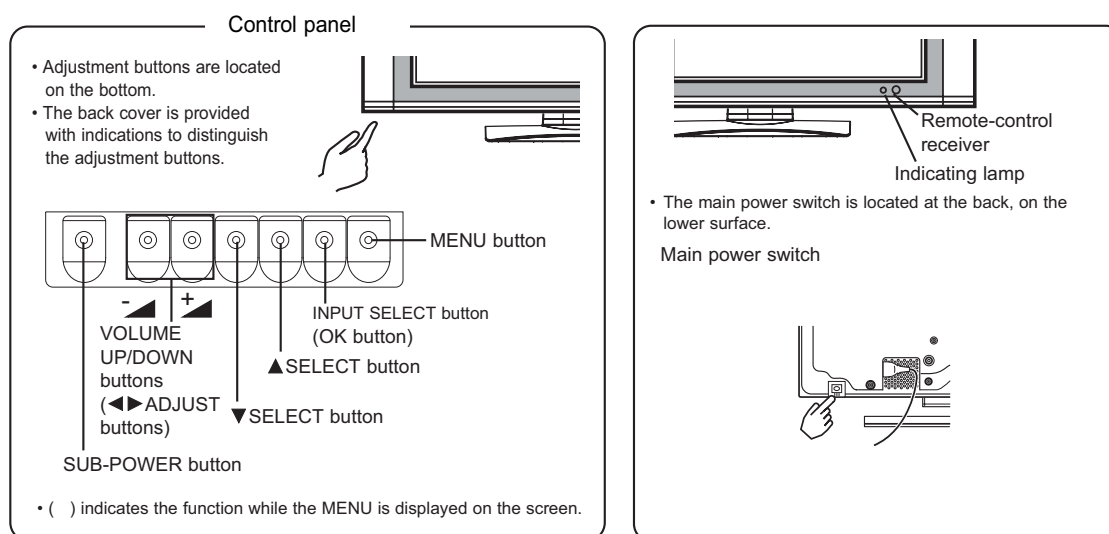
FILTER PWB, SW PWB, LED/RECEIVER PWB, SP TERMINAL(L/R) PWB
 AUDIO PWB, JOINT PWB, Swivel PWB, HDMI PWB, control PWB
 VIDEO PWB
 TUNER PWB

■ Readjustment Power supply voltage

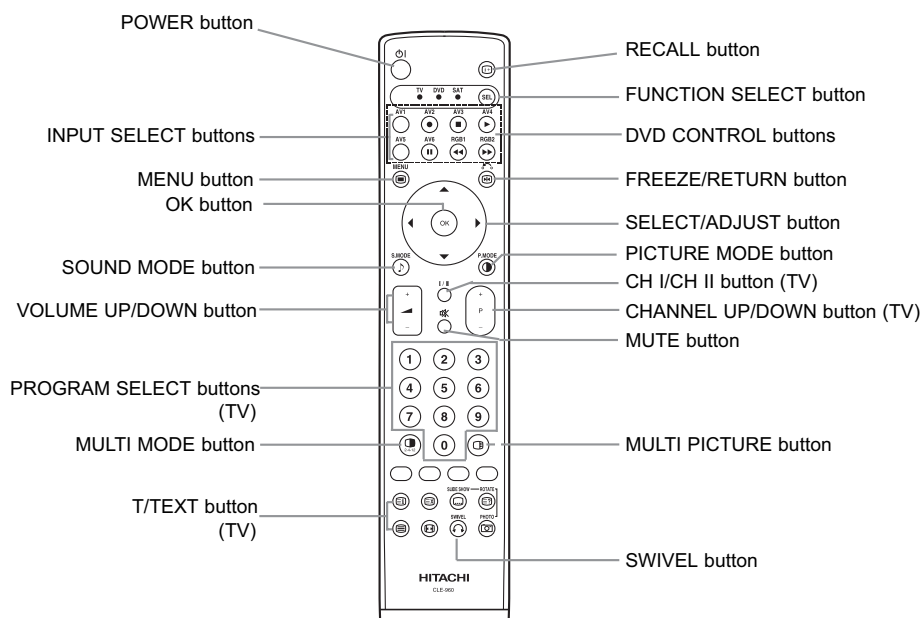
When a PANEL or a Power Unit is exchanged, power supply voltage needs to be adjusted. Please adjust to make the values of V_a and V_s of as should on the label currently stuck on the panel back upper parts. Adjustment is performed by VR in the power supply unit. Please refer to the procedures of " V_a " and " V_s " adjustments on 23page.

4. Component names

[Main unit]



[Remote control]



CLE-960

5. New adoption technology

[System control micom I001(M30627)]

• Pin function table

No.	PIN MANE	I/O	FUNCTION
1	VREF (+5.0V)	I	5V
2	+5.0V	I	5V
3	NC	I/O	NC
4	OSD_DATA	I/O	OSD DATA
5	OSD_CLK	I/O	OSD CLK
6	HP_VOL	I/O	Head Phone Volume
7	FE.AGC_O(M)	I/O	AGC Voltage(F/E)
8	DATA_OUT(FC)	I/O	FC DATA
9	DATA_IN(FC)	I/O	FC DATA
10	CLK(FC)	I/O	FC CLOCK
11	EDID_PROTECT	I/O	Memory Protect
12	TRAP_MAIN	I/O	TRAP-MAIN
13	GND	I	GND
14	CNVSS(FLASH)	I	CNVSS(FLASH)
15	DSUB COMP	I/O	SYNC-SW
16	RGBSW	I/O	SYNC-SW
17	RESET	I	RESET
18	16MHz oscillation	O	OSC-OUT
19	GND	I	GND
20	16MHz oscillation	I	OSC-IN
21	+5.0V	I	5V
22	NMI(+5.0V)	I	5V PULL UP
23	RMCON(AVC)	I/O	IR Signal
24	V.FREQ_2(VIDEO)	I/O	TA1370(LA7213), COMPONENT2
25	V.FREQ_1/3	I/O	TA1370(LA7213), COMPONENT(Main)/ DSUB COMPONENT
26	SCV.SYNC	I/O	CVBS for SYNC Detection(Sub Picture)
27	IRQ(PM-IRQ)	I/O	PANEL MODULE Condition(L:Normal,H:Error)
28	MCV.SYNC	I/O	CVBS for SYNC Detection(Main Picture)
29	POWER_LED	I/O	L:LED ON(Power Save)
30	H.FREQ_2(VIDEO)	I/O	TA1370(LA7213), COMPONENT2
31	PDP_WVGA_LCD_SW_2	I/O	PDP/42WVGA/LCD detection
32	H.FREQ_1/_3	I/O	TA1370(LA7213), COMPONENT1(Main), D-SUB
33	PDWN	I/O	RESERVE(LVDS Power Down mode(PANEL))
34	RXD2	I/O	DTT
35	TXD2	I/O	DTT
36	TXD1(RS232C/FLASH)	I/O	DATA(RS-232C)
37		I	5V
38	RXD1(RS232C/FLASH)	I/O	DATA(RS-232C)
39		I	GND
40	SCLK(FLASH)	I/O	CLOCK(FRASH MEMORY Writing)
41	BUSY(FLASH)	I/O	BUSY(FRASH MEMORY Writing)
42	TXD0(PDP)	I/O	Ether Net
43	RXD0(PDP)	I/O	Ether Net
44	SDA4(panel)	I/O	I ² C-BUS Contorol DATA
45	SCL4(panel)	I/O	I ² C-BUS Contorol CLOCK
46	M_ENABLE	I/O	Media Enable
47	M_SCLK	I/O	Media Clock
48	M_SDA	I/O	Media Data
49	M_WAKEUP	I/O	Media Wakeup
50	PDPGO(PM_ON)	I/O	PDP PALEL Contorol

42PD7200 (PW2)

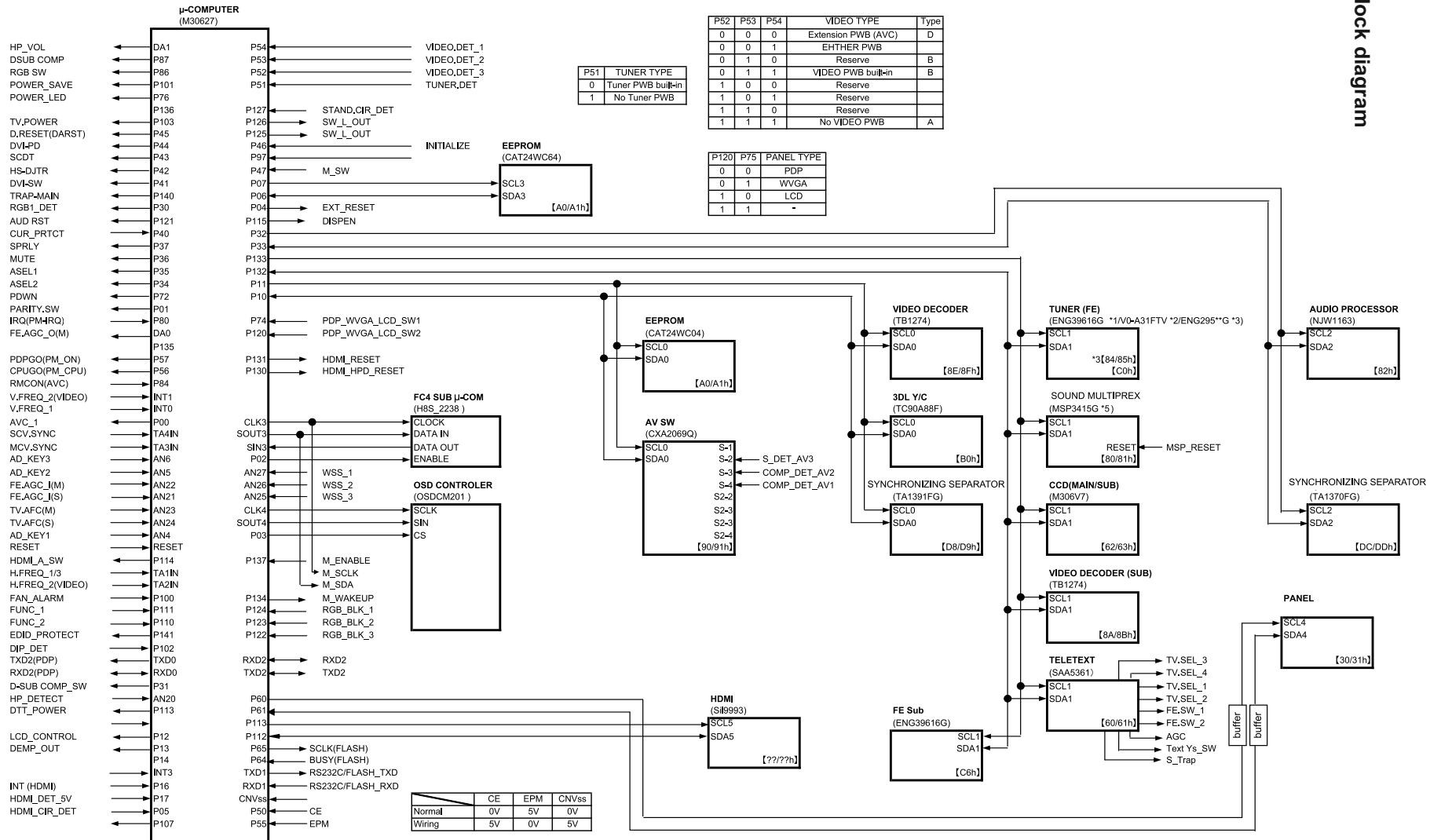
No.	PIN MANE	I/O	FUNCTION
51	CPUGO(PM_CPU)	I/O	PDP PALEL Contorol
52	EPM (FLASH)	I/O	FRASH MEMORY Writing
53	VIDEO.DET_1	I/O	Detecting VIDEO PWB
54	SCL1	I/O	I2C (to PWB TUNER side) FE/MSP3455or MSP3415G/SA5361/TB1274(Sub)/M306V7/M62320P
55	SDA1	I/O	I2C (to PWB TUNER side) FE/MSP3455or MSP3415G/SA5361/TB1274(Sub)/M306V7/M62320P
56	HDMI-RESET	I/O	HDMI-Reset
57	HDMI-HPD_RESET	I/O	Hot Plug Detect Reset
58	VIDEO.DET_2	I/O	Detecting VIDEO PWB
59	VIDEO.DET_3	I/O	Detecting VIDEO PWB
60	TUNER.DET_1	I/O	Detecting TUNER PWB
61	CE (FLASH)	I/O	FRASH MEMORY Writing
62	STAND.CIR_DET	I/O	Detecting SWIVEL PWB
63	SW_L_OUT	I/O	SWIVEL(L-output)
64	SW_R_OUT	I/O	SWIVEL(R-output)
65	M_SW	I/O	Discriminate terminal of bridge media circuit connecting.
66	INITIALIZE	I/O	Initializing EEPROM
67	D.RESET(DARST)	I/O	RESET(DVI)
68	DVI-PD	I/O	DVI Contorol
69	SCDT	I/O	DVI Contorol
70	HS-DJTR	I/O	DVI Contorol
71	DVI-SW	I/O	DVI Contorol
72	CUR_PRTCT	I/O	Detecting Powre-SWIVEL
73	SPRLY	I/O	SP ON/OFF Relay Control
74	MUTE	I/O	MUTE
75	ASEL1	I/O	AUDIO Signal SW
76	ASEL2	I/O	AUDIO Signal SW
77	SDA2	I/O	I2C(NJW1163,AD7414,TA1370)
78	SCL2	I/O	I2C(NJW1163,AD7414,TA1370)
79	D-SUB COMP_SYNC.SW	I/O	SYNC-SW
80	BM_SW	I/O	BM switch
81	RGB_BLK_2	I/O	NC
82	RGB_BLK_3	I/O	NC
83	AUD RST	I/O	RESET for LIPSYNC IC
84	PDP_WVGA_LCD_SW_1	I/O	PDP/42WVGA/LCD detection
85	+5.0V	I	
86	RGB1_DET	I/O	NC
87	GND	I	GND
88	WSS_1	I/O	NC
89	WSS_2	I/O	NC
90	WSS_3	I/O	NC
91	TV.AFC(S)	I/O	AFC Voltage(Sub TUNER)
92	TV.AFC(M)	I/O	AFC Voltage(Main TUNER)
93	FE_AGC_I(M)	I/O	AGC Voltage(Main TUNER)
94	FE_AGC_I(S)	I/O	AFC Voltage(Sub TUNER)
95	HP_DETECT	I/O	HEAD PHONE DETECT
96	HDMI_DET	I/O	HDMI 5V DET
97	INT_HDMI	I/O	INT(HDMI)
98	NC	I/O	NC
99	COMP_SW	I/O	Component SW Main ⇔ DSUB
100	DEMP_OUT	I/O	deemphasis control output for HDMI

42PD7200 (PW2)

No.	PIN MANE	I/O	FUNCTION
101	CONTROL	I/O	LCD PANEL
102	SCL0	I/O	I ² C-BUS Contorol CLOCK
103	SDA0	I/O	I ² C-BUS Contorol DATA
104	SCL3(EEPROM)	I/O	I ² C-BUS Contorol CLOCK
105	SDA3(EEPROM)	I/O	I ² C-BUS Contorol DATA
106	HDMI_CIR_DET	I/O	Detecting HDMI circuit connection
107	EXT_RESET	I/O	EXTERNAL RESET
108	OSD_CS	I/O	OSD CS
109	FC_ENABLE	I/O	FC ENABLE
110	NC	I/O	NC
111	NC	I/O	NC
112	IRQ_DTT	I/O	DTT IRQ
113	DTT_POWER	I/O	DTT POWER
114	DISPEN	I/O	DISPEN
115	HDMI_A_SW	I/O	HDMI AUDIO SW
116	SCL5	I/O	I ² C-BUS Contorol CLOCK
117	SDA5	I/O	I ² C-BUS Contorol DATA
118	FUNC_1	I/O	Function 1
119	FUNC_2	I/O	Function 2
120	NC	I/O	NC
121	AD_KEY3	I/O	AD KEY3**
122	AD_KEY2	I/O	AD KEY2*
123	AD_KEY1	I/O	AD KEY1(INPUT)
124	TV.POWER	I/O	POWRE ON/OFF(H:ON, L:STANDBY)
125	DIP.DET	I/O	DIP DET
126	POWER_SAVE	I/O	POWRE ON/OFF(L:ON(STANDBY·POWRE SAVE), H:OFF)
127	GND	I	GND
128	FAN_ALARM *1	I/O	FAN ALARM

• Block diagram

42PD7200 (PW2)



6. Adjustment

• How to get to Adjustment mode

Using the front control buttons with the set turned off (standby) can activate it.

Press the SUB-POWER(⏻) button, INPUT SELECT(↔) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on in adjustment mode with OSD.

• Changing data and Selecting Adjustment code

When the set is in adjustment mode, the cursor ◀, ▶, ▲, ▼ and OK buttons of the remote control or front panel may be used as the adjustment keys.

▲, ▼ buttons are used for selecting adjustment code.

◀, ▶ buttons are used for changing data values.

OK button is used for confirming the data.

After finishing the necessary adjustment press MENU button. Adjustment mode is released and the set returns to normal condition.

• Memory Initialize operation

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

Procedure

- (1) Enter Adjustment Mode.
- (2) Select MEMORY INIT adjustment code (No.658) and change the data value from 0 to 1.
- (3) Activate MEMORY INIT by pressing OK button for more than 3 seconds.
- (4) Select No.525 and change data value from 1 to 0.
- (5) Check that the receiving channel goes to P1. Unit is set to preset values.

42PD7200 (PW2)

● Service adjustment items by I²C-bus control (MAIN Part)

O : should be adjusted

Δ : should be followed previous data

ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER	VIDEO	TUNER	PDP
0	SUB CONTRAST (RF)	Main	15	8	PWB	PWB	PWB	PANEL
1	SUB CONTRAST (AV1)	Main/Sub Composite mode	15	8				
2	SUB CONTRAST (AV2)	Main/Sub Composite mode	15	8				
3	SUB CONTRAST (AV3)	Main/Sub Composite mode	15	8				
4	SUB CONTRAST (AV4)	Main/Sub Composite mode	15	8				
5	SUB CONTRAST (AV5)	Main/Sub Composite mode	15	8				
6	SUB CONTRAST (RF)	Sub	15	8				
7	Sub Color	Main	15	8				
8	Sub Color	Sub	15	8				
9	TINT (RF)	Main	63	33				
10	TINT (VIDEO)	Main	63	33				
11	TINT (RF)	Sub	63	33				
12	TINT (VIDEO)	Sub	63	33				
13	Free							
14	Free							
15	Free							
16	Free							
17	Reference Amplitude(RGB AMP)	RF/VIDEO	254	127				
18	Reference Amplitude(RGB AMP)	PC	254	127				
19	Reference Amplitude(RGB AMP)	Multi Picture mode	254	130				
20	Display for Max. Amplitude Level	Main	-	-				
21	Display for Max. Amplitude Level	Sub	-	-				
22	Offset Value(+/-) of Upper Limit (for FC :RGB-AMP)	Multi Picture mode	18	2				
23	Offset Value(+/-) of Upper Limit (for TB1274:SUB-CONT)	Single Picture mode	18	2				
24	Offset Value(+/-) of Upper Limit (for TB1274:Sub Color)		18	2				
25	Target value of White peak Adj.	Single Picture mode	237	235				
26	Target value of Color Level Adj. (for TB1274:Sub Color)		237	235				
27	Set Blue Gamma gain On/Off 0:Off, 1:On (For 55V)	For 55V	1	1				
28	Contrast mode<Dynamic> SW (TV) 0:Dynamic, 1:Dynamic+Auto	RF	1	1				
29	Select for WIDE Mode		1	1				
30	PinP Function (for PC) 0:PinP, 1:Information1, 2:Information Split		2	0				
31	Black Level(RGB AMP)	RF/VIDEO	254	127				
32	Black Level(RGB AMP)	PC	254	127				
33	Black Level(RGB AMP)	HDMI	254	127				
34	Black Level(RGB AMP)	For USA NTSC/480i	254	127				
35	YNR Input Level for AV1-5 Mode	RF	7	7				
36	YNR Input Level for AV1-5 Mode	VIDEO	7	7				
37	YNR Input Level for AV1-5 Mode	Scart-RGB(50/60Hz)	7	7				
38	YNR Input Level for AV1-5 Mode	480i/576i	7	7				
39	YNR Input Level for AV1-5 Mode	480p/576p	7	7				
40	YNR Input Level for AV1-5 Mode	1080i-50/60/720p	7	7				
41	YNR Input Level for DVI-STV Mode	480i/480p/576i/576p/VGA	7	7				
42	YNR Input Level for DVI-STV Mode	1080i-50/60/720p	7	7				
43	CNR Input Level at Low level for AV1-5 Mode	RF/VIDEO	7	4				
44	CNR Input Level at Low level for AV1-5 Mode	Scart-RGB(50/60Hz)	7	4				
45	CNR Input Level at Low level for AV1-5 Mode	480i/576i	7	4				
46	CNR Input Level at Low level for AV1-5 Mode	480p/576p	7	4				
47	CNR Input Level at Low level for AV1-5 Mode	1080i-50/60/720p	7	4				
48	CNR Input Level at Low level for DVI-STV Mode	480i/480p/576i/576p/VGA	7	2				
49	CNR Input Level at Low level for DVI-STV Mode	1080i-50/60/720p	7	2				
50	CNR Input Level at Low level for Dsub Comp. Mode	480i/576i	7	2				
51	CNR Input Level at Low level for Dsub Comp. Mode	480p/576p	7	2				
52	CNR Input Level at Low level for Dsub Comp. Mode	1080i-50/60/720p	7	2				
53	main/sub YFRNR level [MYNRP0]	NTSC/PAL/ Multi picture	7	1				
54	main/sub YFRNR level [MYNRP5]	NTSC/PAL-VIDEO	7	0				
55	main/sub YFRNR level [MYNRP6]	Scart-RGB(50/60Hz)	7	0				
56	main/sub YFRNR level [MYNRP6]	480i/576i(Except HDMI)	7	0				
57	main/sub YFRNR level [MYNRP7]	480p/576p(Except HDMI)	7	0				
58	main/sub YFRNR level [MYNRP8]	1080i-50/60/720p(Except HDMI)	7	0				
59	main/sub CFRNR level [MCNRP0]	NTSC/PAL/ Multi	7	0				
60	main/sub CFRNR level [MCNRP5]	NTSC/PAL-VIDEO	7	0				
61	main/sub CFRNR level [MCNRP6]	Scart-RGB(50/60Hz)	7	0				
62	main/sub CFRNR level [MCNRP6]	480i/576i	7	0				
63	main/sub CFRNR level [MCNRP7]	480p/576p	7	0				
64	main/sub CFRNR level [MCNRP8]	1080i-50/60/720p	7	0				
65	B-Y/B _v , R-Y/R (VER. Enhancer Gain) [CVEG0]	NTSC/PAL/480i/576i/ Multi picture	15	15				
66	B-Y/B _v , R-Y/R (VER. Enhancer Gain) [CVEG1]	480p/576p/1080i-50/60/720p	15	9				
67	DSB Gain of Vertical for B-Y/B _v , R-Y/R [CVDSBG0]	NTSC/PAL/480i/576i/ Multi picture	3	0				
68	DSB Gain of Vertical for B-Y/B _v , R-Y/R [CVDSBG1]	480p/576p/1080i-50/60/720p	3	0				
69	DSB coring of Vertical for B-Y/B _v , R-Y/R [CVDSBC0]	NTSC/PAL/480i/576i/ Multi picture	7	0				
70	DSB coring of Vertical for B-Y/B _v , R-Y/R [CVDSBC1]	480p/576p/1080i-50/60/720p	7	0				
71	B-Y/B _v , R-Y/R (VRE. Enhancer) CLIP 0:CTI [CVECLP0]	NTSC/PAL/480i/576i/ Multi picture	1	0				
72	B-Y/B _v , R-Y/R (VRE. Enhancer) CLIP 0:CTI [CVECLP1]	480p/576p/1080i-50/60/720p	1	0				
73	Horizontal HPF Peak Freq. SW for B-Y/B _v , R-Y/R [CHHPF0]	NTSC/PAL/480i/576i/ Multi picture	3	2				
74	Horizontal HPF Peak Freq. SW for B-Y/B _v , R-Y/R [CHHPF1]	480p/576p/1080i-50/60/720p	3	2				
75	Horizontal Enhancer Gain for B-Y/B _v , R-Y/R [CHEG0]	NTSC/PAL/480i/576i/ Multi picture	15	15				
76	Horizontal Enhancer Gain for B-Y/B _v , R-Y/R [CHEG1]	480p/576p/1080i-50/60/720p	15	9				
77	Horizontal DSB Gain for B-Y/B _v , R-Y/R [CHDSBG0]	NTSC/PAL/480i/576i/ Multi picture	3	0				
78	Horizontal DSB Gain for B-Y/B _v , R-Y/R [CHDSBG1]	480p/576p/1080i-50/60/720p	3	0				
79	Horizontal DSB Coring for B-Y/B _v , R-Y/R [CHDSBC0]	NTSC/PAL/480i/576i/ Multi picture	7	0				
80	Horizontal DSB Coring for B-Y/B _v , R-Y/R [CHDSBC1]	480p/576p/1080i-50/60/720p	7	0				
81	Horizontal Enhancer Clip for B-Y/B _v , R-Y/R 0:CTI [CHECLP0]	NTSC/PAL/480i/576i/ Multi picture	1	0				
82	Horizontal Enhancer Clip for B-Y/B _v , R-Y/R 0:CTI [CHECLP1]	480p/576p/1080i-50/60/720p	1	0				
83	B-Y Clamp offset	NTSC/PAL/480i/576i/480p/576p	255	128				
84	R-Y Clamp offset	NTSC/PAL/480i/576i/480p/576p	255	128				
85	B-Y Clamp offset	1080i-50/60	255	128				
86	R-Y Clamp offset	1080i-50/60	255	128				
87	B-Y Clamp offset	720p	255	128				
88	R-Y Clamp offset	720p	255	128				
89	B-Y Clamp offset [DVI-STB]	480i/576i/480p/576p/VGA	255	128				
90	R-Y Clamp offset [DVI-STB]	480i/576i/480p/576p/VGA	255	128				
91	B-Y Clamp offset [DVI-STB]	1080i-50/60	255	128				
92	R-Y Clamp offset [DVI-STB]	1080i-50/60	255	128				
93	B-Y Clamp offset [DVI-STB]	720p	255	128				
94	R-Y Clamp offset [DVI-STB]	720p	255	128				
95	P/N ID	Main	1	0				
96	P/N ID	Sub	1	0				
97	Sharpness Gain(RF/NR)	Main/Sub	15	2				
98	Free							
99	Free							

42PD7200 (PW2)

O : shoule be adjusted
 Δ : should be followed previous data

ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
100	Free							
101	Free							
102	Free							
103	Free							
104	Free							
105	Free							
106	Free							
107	Free							
108	Free							
109	Free							
110	Sharpness Gain(RF) BG/DK/I	Sub	15	8				
111	Sharpness Gain(RF) M	Sub	15	8				
112	Sharpness Gain(RF) L	Sub	15	8				
113	Sharpness Gain(RF) L'	Sub	15	8				
114	Sharpness Gain(VIDEO) PAL	Sub	15	8				
115	Sharpness Gain(VIDEO) NTSC3.58	Sub	15	8				
116	Sharpness Gain(VIDEO) SECAM,B/W	Sub	15	8				
117	Sharpness Gain(VIDEO) NTSC4.43	Sub	15	8				
118	Sharpness Gain(VIDEO) N-PAL	Sub	15	8				
119	Sharpness Gain(VIDEO) M-PAL	Sub	15	8				
120	Sharpness Gain(S.VIDEO)	Sub	15	10				
121	Free							
122	Sharpness f0(RF) BG/DK/I	Main/Sub	3	2				
123	Sharpness f0(RF) M	Main/Sub	3	2				
124	Sharpness f0(RF) L	Main/Sub	3	2				
125	Sharpness f0(RF) L'	Main/Sub	3	2				
126	Sharpness f0(VIDEO) PAL	Main/Sub	3	2				
127	Sharpness f0(VIDEO) NTSC3.58	Main/Sub	3	2				
128	Sharpness f0(VIDEO) SECAM,B/W	Main/Sub	3	2				
129	Sharpness f0(VIDEO) NTSC4.43	Main/Sub	3	2				
130	Sharpness f0(VIDEO) N-PAL	Main/Sub	3	2				
131	Sharpness f0(VIDEO) M-PAL	Main/Sub	3	2				
132	Free							
133	Y Out Level M (4.5)	Main	63	15				
134	Y Out Level B/G (5.5)	Main	63	13				
135	Y Out Level D/K (6.5)	Main	63	16				
136	Y Out Level I (6.0)	Main	63	14				
137	Y Out Level L (6.5)	Main	63	13				
138	Y Out Level L' (6.5)	Main	63	16				
139	Y Out Level (VIDEO)	Main	63	15				
140	Y Out Level (TEXT)	Main	63	0				
141	Free							
142	Y Out Level M (4.5)	Sub	63	19				
143	Y Out Level B/G (5.5)	Sub	63	13				
144	Y Out Level D/K (6.5)	Sub	63	12				
145	Y Out Level I (6.0)	Sub	63	13				
146	Y Out Level L (6.5)	Sub	63	12				
147	Y Out Level L' (6.5)	Sub	63	15				
148	Y Out Level (VIDEO)	Sub	63	13				
149	Y Out Level (TEXT)	Sub	63	4				
150	Free							
151	C Out Level M (4.5)	Main	63	7				
152	C Out Level B/G (5.5)	Main	63	7				
153	C Out Level D/K (6.5)	Main	63	7				
154	C Out Level I (6.0)	Main	63	7				
155	C Out Level L (6.5)	Main	63	8				
156	C Out Level L' (6.5)	Main	63	8				
157	C Out Level (VIDEO)	Main	63	15				
158	C Out Level (TEXT)	Main	63	6				
159	Free							
160	C Out Level M (4.5)	Sub	63	3				
161	C Out Level B/G (5.5)	Sub	63	8				
162	C Out Level D/K (6.5)	Sub	63	8				
163	C Out Level I (6.0)	Sub	63	7				
164	C Out Level L (6.5)	Sub	63	7				
165	C Out Level L' (6.5)	Sub	63	7				
166	C Out Level (VIDEO)	Sub	63	10				
167	C Out Level (TEXT)	Sub	63	8				
168	Free							
169	BPF Q (4.43MHz)	Main/Sub	3	3				
170	BPF f0 (4.43MHz)	Main/Sub	3	1				
171	C TRAP SW (COMB=OFF-PAL/NTSC4.43/NTSC3.58)	Main/Sub	1	0				
172	LPF	Main/Sub	1	0				
173	SECAM D-Trap	Main/Sub	1	1				
174	FILTER SW(RF)	Main/Sub	1	0				
175	Y DL (4.5MHz)	Main	10	6				
176	Y DL (5.5MHz PAL/NTSC4.43)	Main	10	4				
177	Y DL (5.5MHz SECAM)	Main	10	0				
178	Y DL (6.0PAL/NTSC4.43)	Main	10	8				
179	Y DL (6.0SECAM)	Main	10	9				
180	Y DL (6.5PAL/NTSC4.43)	Main	10	6				
181	Y DL (6.5SECAM)	Main	10	10				
182	Y DL (L)	Main	10	5				
183	Y DL (L')	Main	10	5				
184	Y DL (VIDEO PAL/NTSC4.43)	Main	10	6				
185	Y DL (VIDEO SECAM)	Main	10	8				
186	Y DL (VIDEO NTSC)	Main	10	6				
187	Y DL (4.5MHz)	Sub	10	5				
188	Y DL (5.5MHz PAL/NTSC4.43)	Sub	10	2				
189	Y DL (5.5MHz SECAM)	Sub	10	0				
190	Y DL (6.0PAL/NTSC4.43)	Sub	10	7				
191	Y DL (6.0SECAM)	Sub	10	5				
192	Y DL (6.5PAL/NTSC4.43)	Sub	10	5				
193	Y DL (6.5SECAM)	Sub	10	5				
194	Y DL (L)	Sub	10	5				
195	Y DL (L')	Sub	10	5				
196	Y DL (VIDEO PAL/NTSC4.43)	Sub	10	5				
197	Y DL (VIDEO SECAM)	Sub	10	5				
198	Y DL (VIDEO NTSC)	Sub	10	5				
199	NTSC Comb(Comb off)	Sub	1	1				

42PD7200 (PW2)

O : shoule be adjusted
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ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
200	Cb offset1	Main	15	8				
201	Free							
202	Cr offset1	Main	15	8				
203	Free							
204	Cb offset1	Sub	15	8				
205	Free							
206	Cr offset1	Sub	15	8				
207	Free							
208	MVM (VIDEO)	—	1	0				
209	AFC GAIN (AV00)	—	3	0				
210	AFC GAIN (AV1)	—	3	0				
211	AFC GAIN (AV2)	—	3	0				
212	AFC GAIN (AV3)	—	3	0				
213	AFC GAIN (AV4)	—	3	0				
214	AFC GAIN (AV5)	—	3	0				
215	AFC GAIN (Except AV00)	—	3	0				
216	S B-Y ADJ	Main	15	8				
217	S R-Y ADJ	Main	15	8				
218	S B-Y ADJ	Sub	15	8				
219	S R-Y ADJ	Sub	15	8				
220	BELL f0	Main/Sub	1	0				
221	S INHBT	—	1	0				
222	S ID	—	1	0				
223	S GP	—	3	0				
224	S V ID	—	1	0				
225	BELL/HPF	—	3	3				
226	HS Phase	Main	1	0				
227	HS Phase	Sub	1	0				
228	Bandwidth 1	NTSC/PAL/480i/576i	3	2				
229	Bandwidth 1	480p/576p	3	2				
230	Bandwidth 1	1080i-50/60/720p	3	0				
231	Bandwidth 2	NTSC/PAL/480i/576i	3	2				
232	Bandwidth 2	480p/576p	3	2				
233	Bandwidth 2	1080i-50/60/720p	3	0				
234	Sub Contrast 1	Except HDMI	15	0				
235	Sub Contrast 1	HDMI	15	0				
236	Sub Contrast 2	Except HDMI	15	0				
237	Sub Contrast 2	HDMI	15	0				
238	Sub Color 1	Except HDMI	15	0				
239	Sub Color 1	HDMI	15	0				
240	Sub Color 2	Except HDMI	15	0				
241	Sub Color 2	HDMI	15	0				
242	HV THRU 1	NTSC/PAL/480i/576i/480p/576p	1	0				
243	HV THRU 1	1080i-50/60/720p	1	0				
244	HV THRU 2	NTSC/PAL/480i/576i/480p/576p	1	0				
245	HV THRU 2	1080i-50/60/720p	1	0				
246	H SEP 1	RF/VIDEO	1	0				
247	H SEP 1	480i/576i	1	0				
248	H SEP 1	480p/576p	1	0				
249	H SEP 1	1080i 50	1	0				
250	H SEP 1	1080i 60/720p	1	0				
251	H SEP 2	RF/VIDEO	1	0				
252	H SEP 2	480i/576i	1	0				
253	H SEP 2	480p/576p	1	0				
254	H SEP 2	1080i 50	1	0				
255	H SEP 2	1080i 60/720p	1	0				
256	V SEP 1	RF/VIDEO	1	0				
257	V SEP 1	480i/576i	1	0				
258	V SEP 1	480p/576p	1	0				
259	V SEP 1	1080i 50	1	0				
260	V SEP 1	1080i 60/720p	1	0				
261	V SEP 2	RF/VIDEO	1	0				
262	V SEP 2	480i/576i	1	0				
263	V SEP 2	480p/576p	1	0				
264	V SEP 2	1080i 50	1	0				
265	V SEP 2	1080i 60/720p	1	0				
266	AFC MODE 1	RF	3	0				
267	AFC MODE 1	VIDEO	3	0				
268	AFC MODE 2	RF	3	0				
269	AFC MODE 2	VIDEO	3	0				
270	N LVL 1	RF	1	0				
271	N LVL 1	VIDEO	1	0				
272	N LVL 2	RF	1	0				
273	N LVL 2	VIDEO	1	0				
274	Free							
275	HD POSITION 1	480i/576i	15	0				
276	HD POSITION 1	480p/576p	15	0				
277	HD POSITION 1	1080i 50	15	0				
278	HD POSITION 1	1080i 60/720p	15	0				
279	Free							
280	HD POSITION 2	480i/576i	15	0				
281	HD POSITION 2	480p/576p	15	0				
282	HD POSITION 2	1080i 50	15	0				
283	HD POSITION 2	1080i 60/720p	15	0				
284	Y LPF 1	RF	1	1				
285	Y LPF 1	VIDEO	1	1				
286	Y LPF 2	RF	1	1				
287	Y LPF 2	VIDEO	1	1				
288	Gain 1		1	1				
289	Gain 2		1	1				
290	YCS MODE	NTSC3.58	3	0				
291	3D DET		7	7				
292	AFC Gain	NTSC3.58	3	0				
293	2D-CNR k		3	0				
294	2D-CNR Lim		3	0				
295	GMCON		1	0				
296	Y-NC		1	0				
297	Y-NC Lim		3	0				
298	2D-YNR k		3	0				
299	2D-YNR Gain		3	0				

42PD7200 (PW2)

O : shoule be adjusted
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ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
300	2D-YNR Lim		3	0				
301	BLK EXP		3	0				
302	CKILL		1	0				
303	Output Clamp		1	0				
304	Input Clamp auto		1	1				
305	Int Clamp Manual		1	0				
306	C-ENHA		1	0				
307	YC-MIX		1	0				
308	Video2 RGB Mode ON		1	0				
309	HSWINV		1	0				
310	Free							
311	V-ENHA Gain	NTSC3.58	3	2				
312	V-ENHA NL	NTSC3.58	3	2				
313	H-ENHA Gain	NTSC3.58	3	1				
314	3DNR Corr for 3DYCS		1	0				
315	Burst ON for 2DYCS????		1	0				
316	MDMPL		1	0				
317	MDMBL		1	0				
318	H-MaskOut		7	0				
319	V-MaskOut		7	0				
320	Input Y-Delay (Main RF mode) for 3DYCS		7	4				
321	Input Y-Delay (Main Video mode) for 3DYCS		7	4				
322	Output-Y-Delay (Main RF Mode) for 3DYCS		15	8				
323	Output-Y-Delay (Main Video Mode) for 3DYCS		15	8				
324	V-ENHA Core	NTSC3.58	3	0				
325	Input Clamp Key	NTSC3.58	1	1				
326	Burst Gate Key	NTSC3.58	1	1				
327	Sync sep LPF	NTSC3.58	1	0				
328	H-WST	NTSC3.58	7	3				
329	HD Amp 1	NTSC3.58	7	6				
330	HD Gain V	NTSC3.58	31	13				
331	HD Amp 2	NTSC3.58	7	1				
332	HD Gain 1	NTSC3.58	31	8				
333	HD Amp 3	NTSC3.58	7	5				
334	HD Gain 2	NTSC3.58	31	4				
335	ACMSLP	NTSC3.58	3	1				
336	ACSSLP	NTSC3.58	3	2				
337	AYMSLP	NTSC3.58	3	2				
338	AYSSLP	NTSC3.58	3	2				
339	ACMESET	NTSC3.58	3	3				
340	ACMFSET	NTSC3.58	3	3				
341	ACSESET	NTSC3.58	3	2				
342	ACSFSET	NTSC3.58	3	2				
343	AYMESET	NTSC3.58	3	3				
344	AYMFSET	NTSC3.58	3	3				
345	AYSESET	NTSC3.58	3	1				
346	AYSFSET	NTSC3.58	3	3				
347	BCMSLP	NTSC3.58	3	3				
348	BCSSLP	NTSC3.58	3	3				
349	BYMSLP	NTSC3.58	3	3				
350	BYSSLP	NTSC3.58	3	2				
351	BCMESET	NTSC3.58	3	2				
352	BCMFSET	NTSC3.58	3	2				
353	BCSESET	NTSC3.58	3	2				
354	BCSFSET	NTSC3.58	3	2				
355	BYMESET	NTSC3.58	3	3				
356	BYMFSET	NTSC3.58	3	3				
357	BYSESET	NTSC3.58	3	3				
358	BYSFSET	NTSC3.58	3	3				
359	BCMUP	NTSC3.58	1	1				
360	CECMP	NTSC3.58	7	4				
361	CSCMP	NTSC3.58	15	0				
362	F1HER	NTSC3.58	3	1				
363	F1VER	NTSC3.58	3	1				
364	MREF	NTSC3.58	15	2				
365	CDEYE	NTSC3.58	3	2				
366	YDEYE	NTSC3.58	3	2				
367	MDS	NTSC3.58	1	0				
368	F-TBC OFF MDMPL	NTSC3.58	1	0				
369	REC:C DEC	Except NTSC3.58	1	0				
370	V-ENHA Gain	Except NTSC3.58	3	2				
371	V-ENHA NL	Except NTSC3.58	3	1				
372	H-ENHA Gain	Except NTSC3.58	3	1				
373	3D-CNR Lim for 2DYCS		7	0				
374	3D-CNR k for 2DYCS		3	0				
375	3D-CNR Gain for 2DYCS		7	0				
376	3D-YNR Lim for 2DYCS		7	0				
377	3D-YNR k for 2DYCS		3	0				
378	3D-YNR Gain for 2DYCS		7	0				
379	YCS MODE	Except NTSC3.58	3	0				
380	AFC Gain	Except NTSC3.58	3	0				
381	Free							
382	Free							
383	V-ENHA Core	Except NTSC3.58	3	0				
384	Input Clamp Key	Except NTSC3.58	1	1				
385	Burst Gate Key	Except NTSC3.58	1	1				
386	Sync sep LPF	Except NTSC3.58	1	0				
387	H-WST	Except NTSC3.58	7	3				
388	HD Amp 1	Except NTSC3.58	7	6				
389	HD Gain V	Except NTSC3.58	31	13				
390	HD Amp 2	Except NTSC3.58	7	1				
391	HD Gain 1	Except NTSC3.58	31	8				
392	HD Amp 3	Except NTSC3.58	7	5				
393	HD Gain 2	Except NTSC3.58	31	4				
394	ACMSLP	Except NTSC3.58	3	2				
395	ACSSLP	Except NTSC3.58	3	2				
396	AYMSLP	Except NTSC3.58	3	0				
397	AYSSLP	Except NTSC3.58	3	0				
398	ACMESET	Except NTSC3.58	3	3				
399	ACMFSET	Except NTSC3.58	3	3				

42PD7200 (PW2)

O : should be adjusted
 Δ : should be followed previous data

ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
400	ACSESET	Except NTSC3.58	3	2				
401	ACSFSET	Except NTSC3.58	3	2				
402	AYMESET	Except NTSC3.58	3	3				
403	AYMFSET	Except NTSC3.58	3	3				
404	AYSESET	Except NTSC3.58	3	1				
405	AYSFSET	Except NTSC3.58	3	3				
406	BCMSLP	Except NTSC3.58	3	3				
407	BCSSLP	Except NTSC3.58	3	3				
408	BYMSLP	Except NTSC3.58	3	3				
409	BYSSLP	Except NTSC3.58	3	2				
410	BCMESET	Except NTSC3.58	3	2				
411	BCMFSET	Except NTSC3.58	3	2				
412	BCSESET	Except NTSC3.58	3	2				
413	BCSFSET	Except NTSC3.58	3	2				
414	BYMESET	Except NTSC3.58	3	3				
415	BYMFSET	Except NTSC3.58	3	3				
416	BYSESET	Except NTSC3.58	3	3				
417	BYSFSET	Except NTSC3.58	3	3				
418	BCMUP	Except NTSC3.58	1	1				
419	CECMP	Except NTSC3.58	7	4				
420	CSCMP	Except NTSC3.58	15	0				
421	F1HER	Except NTSC3.58	3	1				
422	F1VER	Except NTSC3.58	3	1				
423	MREF	Except NTSC3.58	15	2				
424	CDEYE	Except NTSC3.58	3	2				
425	YDEYE	Except NTSC3.58	3	2				
426	MDS	Except NTSC3.58	1	0				
427	F-TBC OFF MDMP	Except NTSC3.58	1	0				
428	SEPA LEVEL DSUB	480i/576i	3	2				
429	SEPA LEVEL DSUB	480p/576p	3	2				
430	SEPA LEVEL DSUB	1080i 50	3	2				
431	SEPA LEVEL DSUB	1080i 60/720p	3	2				
432	HD-PHASE DSUB	480i/576i	63	20				
433	HD-PHASE DSUB	480p/576p	63	20				
434	HD-PHASE DSUB	1080i 50	63	20				
435	HD-PHASE DSUB	1080i 60/720p	63	20				
436	Heat APC function (HAPC) available		1	1				
437	y-select(0:1.0, 1:2.2, 2:2.8)	RF/VIDEO	2	1				
438	y-select(0:1.0, 1:2.2, 2:2.8)	DVI-PC/DVI-STB/DSUB-RGB	2	1				
439	Select for APC function		1	0				
440	CCFMD function	RF/VIDEO	1	0				
441	CCFMD function	DVI-PC/DVI-STB/DSUB-RGB	1	0				
442	NTSC/EBU(CCFORM)	SD(YCbCr)/Scart-RGB	1	0				
443	NTSC/EBU(CCFORM)	HD(YPbPr)	1	0				
444	NTSC/EBU(CCFORM)	DVI-PC/DVI-STB/DSUB-RGB	1	0				
445	Correction for Tracking (DCBON)	RF/VIDEO-Color Temp. Cool	1	1				
446	Correction for Tracking (DCBON)	RF/VIDEO-Color Temp. Nor/War	1	1				
447	Correction for Tracking (DCBON)	DVI-PC/DVI-STB/DSUB-RGB	1	1				
448	Color Temp. Correction		3	2				
449	Brightness Limited Function of PANEL [APSON]		1	1				
450	Dynamic Back Light Correction	For LCD	1	1				
451	Dynamic Contrast Correction		1	1				
452	Histogram Color Management		1	1				
453	Histogram Gradation Amp.		1	1				
454	Histogram Enhancer		1	1				
455	Dynamic Enhancer		1	1				
456	FC6 THROUGH 0:OFF, 1:THROUGH ON		1	0				
457	APL Enhancer 0:OFF, 1:ON	For Dynamic mode	1	1				
458	ATC INPUT RED SELECT		1	0				
459	HD/VD OUTPUT LEVEL		1	1				
460	ISM Control for WVGA	For WVGA	1	1				
461	Free							
462	WVGA BRIGHTNESS	For WVGA	1	0				
463	Black insert function 0:Not available, 1:Available	For LCD Dynamic mode or Day	1	0				
464	Dynamic Backlight function 0:No, 1:Yes	For LCD	1	1				
465	DVI-STB Setup 0:None V/GA/Others Yes, 1:All none 2:All have	DVI-STB	2	0				
466	HSYNC De-Jitter 0:Low(Disabled), 1:High(Enabled)	DVI-PC	1	0				
467	HSYNC De-Jitter 0:Low(Disabled), 1:High(Enabled)	DVI-STB	1	0				
468	Free							
469	AUTO FM/AM (D11-D8)	—	15	2				
470	AUTO FM/AM (D 7-D0)	—	254	189				
471	A2 THRESHOLD (D11-D8)	—	15	0				
472	A2 THRESHOLD (D 7-D0)	—	254	112				
473	PRE_AM	Except 4.5MHz (Except Dual/Stereo mode)	254	17				
474	VOL SCART1 (D15-D8)	—	254	115				
475	VOL SCART1 (D 7-D5)	—	7	0				
476	PRE SCART	—	254	31				
477	PRE FM	4.5MHz(JAPAN)	254	34				
478	PRE FM	4.5MHz(Except BTSC-SAP mode)	254	32				
479	PRE FM	4.5MHz(BTSC-SAP)	254	60				
480	PRE FM	4.5MHz(Except KOREA—Dual/Stereo mode)	254	36				
481	PRE FM	4.5MHz(KOREA—Dual/Stereo)	254	34				
482	PRE FM	Except 4.5MHz(Except Dual/Stereo mode)	254	17				
483	PRE FM	Except 4.5MHz(Dual/Stereo mode)	254	27				
484	PRE NICAM	—	254	57				
485	CM THRESHOLD (D15-D8)	—	254	0				
486	CM THRESHOLD (D7 -D0)	—	254	36				
487	AGC LEVEL AGCL	—	3	0				
488	TEXT H sync delay	—	127	0				
489	TEXT V sync delay	—	127	50				
490	TEXT H POSITION	—	254	42				
491	TEXT V POSITION	—	254	39				
492	Select for APC output [Except Europe model]	Main RF	2	1				
493	L_PLL_GAIN		1	0				
494	Free							
495	HDMI EDID WRITE ENABLE	0:Disenable, 1:Enable	1	1				
496	BPMA : Back Porch Mode,Field2		1	1				

42PD7200 (PW2)

O : should be adjusted
 Δ : should be followed previous data

ADJ No	Function		Max. value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
497	VCORA : VCO range select		3	0				
498	CRNTA : change pump current select		7	0				
499	TESTA : Matching Test to allow increment of stability counter.		1	1				
500	PRMB : preamble criteria		31	6				
501	HDCP : HDCP enable criteria		31	12				
502	SMPLING	For CCD	255	0				
503	POLLING	For CCD	255	15				
504	START	For CCD	7	2				
505	TIMEOUT	For CCD	30	5				
506	STATUS	For CCD	7	2				
507	CCD-HP	For CCD	79	40				
508	CCD-CLK	For CCD	79	57				
509	Horizontal Position of OSD		15	7				
510	Vertical Position of OSD		15	7				
511	Free							
512	Typical Value of Contrast OSD	DYNAMIC	31	31				
513	Free							
514	Temperature for Fun start (Temp_High)		254	58				
515	Temperature for Fun stop (Temp_Low)		254	55				
516	Display of internal temperature °C (Temperature)		125	-				
517	Display of Panel map version		255	-				
518	Accumulation time for Panel (hours)		65535	-				
519	Reset function of accumulation time for WVGA/LCD Panel	0:Normal 1:Reset	1	0				
520	Power Save/Screen Saver On/Off Setting at Initialize, Reset and Shipping	P.S/S.S 0:Off/20m 1:On/Off 2:Off/Off	2	0				
521	PC Power Save function (0:Impossible, 1:Possible)		1	1				
522	Screen Saver-Picture shift amount 0:1pixel/1:2pixel/2:3pixel		2	0				
523	Screen Saver-Picture shift Direction 0:dia /1:cross /2:up/down /3:left/right		3	0				
524	Waite Time for POWER SAVE function (s)	VIDEO/PC	254	15				
525	BURN-IN enable/ disable	0:Disable, 1:Enable	1	1				
526	BURN-IN mode		2	2				
527	Recovery to an error of OSC frequency of Ceramic resonator for timer		62	34				
528	EURO DK-SECAM MASK(V=60) 0:Normal 1:Mask(V=60)		1	0				
529	Set Sound System at Auto mode of Sound Sys. (0:auto, 1:4.5MHz)	Main	1	0				
530	Power condition at power save mode of PC mode after done RESET function	0:Keep last condition, 1:Return to normal condition	1	0				
531	Select Wide mode for Europe model (Normal= 5mode/ For Service= 10 mode)	0:Normal, 1:For service	1	0				
532	Thermo sensor function available or not 0:None, 1:Yes		1	0				
533	Video Input function available or not at RGB1 & RGB2 mode	0:Not Available, 1:Available	1	1				
534	EURO SOUND SYSTEM DK Disable 0:Enable 1:Disable		1	0				
535	Remote Function available 0:NO, 1:YES		1	1				
536	Key Function available 0:NO, 1:YES		1	1				
537	DVI-STB/RGB-COMPONENT Function available 0:NO, 1:YES		1	0				
538	Terminal Mode Function available 0:Not Available, 1:Available	RS232C	1	1				
539	Select color control (0:Asia, 1:South America)	Main/Sub	1	0				
540	Language (Refer to below)		6	0				
541	Hotel Mode(0:No, 1:Yes)		2	0				
542	Analog Data (0:Keep EEPROM, 1:Not Keep to EEPROM)		1	0				
543	Maximum Volume Limit		63	63				
544	Power Mode(0>Last mode, 1:Pos1, 2-7:V1-6, 8-9:RGB1-2)		9	0				
545	Free							
546	Channel Select (0:CCIR, 1:CHINA)		1	0				
547	Auto sound 4.5 (0:Korea, 1:BTSC, 2:Japan)		2	0				
548	T/TEXT(0:None, 1:Yes)		1	1				
549	Free							
550	Channel Preset(0:VESTEL, 1:GIFU, 2:HAMA, 3:HFD, 4:AUSTRIA)		4	1				
551	V FREQ 60Hz Force (0:None, 1:Yes)		1	0				
552	Offset value of adjusted TINT	For COMPAL factory	20	11				
553	Use *TINT Offset * 0:No, 1:Yes	For COMPAL factory	1	0				
554	PDP-BLK ON/OFF	1:ON, 0:OFF	1	0				
555	IIC BUS Data/Clock Open(0:Close, 1:Open)		1	0				
556	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:AUTO	Dynamic mode	4	4				
557	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:AUTO	Natural mode	4	4				
558	Protect for Image Retention 0:Off, 1:7%, 2:14%, 3:21%, 4:AUTO	Cinema mode	4	4				
559	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Dynamic mode	1	0				
560	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Natural mode	1	1				
561	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For Cinema mode	1	1				
562	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For PC mode	1	1				
563	Dispersion Time of Sustain current 0:2 Times, 1:4 times	For PC-Movie mode	1	1				
564	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 50Hz[Dynamic] mode	2	1				
565	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 50Hz[Natural] mode	2	1				
566	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 50Hz[Cinema] mode	2	1				
567	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 60Hz[Dynamic] mode	2	1				
568	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 60Hz[Natural] mode	2	1				
569	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 60Hz[Cinema] mode	2	1				
570	Q mode 0:Freeze, 1:Move 1, 2:Move 2	For 70Hz(PC)	2	0				
571	Main/Sub YFRNR passage level [MYNRP6]	480i/576i (HDMI)	7	0				
572	[MYNRP7]	480p/576p (HDMI)	7	0				
573	[MYNRP8]	1080i-50/720p-50 (HDMI)	7	1				
574	[MYNRP8]	1080i-60/720p-60 (HDMI)	7	0				
575	Dummy575		-	-				
576	Gray level of BM	Index	31	4				
577	Display of BM version		127	-				
578	TA1391: SYNC SW Change	0:SYNC, 1:HDVD1&2	1	0				
579	Free							
580	Free							
581	Counting time for discrimination of fh(M30625/TA1370)	-	31	2				
582	Counting time for discrimination of fv(M30625/TA1370)	-	31	2				
583	Counting time for discrimination of fv(TB1274)	-	31	2				
584	Lower Limits value for Sync Detect of 2ms interval	For AFC at TV mode	254	25				
585	Lower Limits value for Sync Detect of 2ms interval	For Free Running at TV mode	254	30				
586	Lower Limits value for Sync Detect of 2ms interval	For AUTO OFF at TV mode	254	25				
587	Lower Limits value for Sync Detect of 2ms interval	For Free Running at AV mode	254	30				
588	Lower Limits value for Sync Detect of 2ms interval	For Power Save at AV mode	254	5				
589	Upper Limits Value for Sync Detect of 2ms interval	For AFC at TV mode	254	40				
590	Upper Limits Value for Sync Detect of 2ms interval	For Free Running at TV mode	254	45				
591	Upper Limits Value for Sync Detect of 2ms interval	For AUTO OFF at TV mode	254	35				

42PD7200 (PW2)

O : should be adjusted

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ADJ No	Function		Max. value	Default	Changed Component			
					FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
	ADJ. Items	Mode						
592	Upper Limits Value for Sync Detect of 2ms interval	For Free Running at AV mode	254	45				
593	Upper Limits Value for Sync Detect of 2ms interval	For Power Save at AV mode	254	200				
594	V detection(Format PWB) 0:out of range, 128:NO V(or out of spec),	50/60(Hz)	255	-				
595	H detection(Format PWB) 0:out of range, 128:NO H(or out of spec),	15/28/31/33/45(kHz)	255	-				
596	V detection(VideoPWB) 0:out of range, 128:NO V(or out of spec), 255:interrupt	50/60(Hz)	255	-				
597	H detection(Video PWB) 0:out of range, 128:NO H(or out of spec),	15/28/31/33/45(kHz)	255	-				
598	COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ...)	Main	-	-				
599	COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ...)	Sub	-	-				
600	Counting Value of 2ms Sync.Detect	Main	-	-				
601	Counting Value of 2ms Sync.Detect	Sub	-	-				
602	TB1274 Read Data(00h)	Main	-	-				
603	TB1274 Read Data(01h)	Main	-	-				
604	TB1274 Read Data(00h)	Sub	-	-				
605	TB1274 Read Data(01h)	Sub	-	-				
606	MSP Read Data (CNTR0L) (D15-D8)		-	-				
607	MSP Read Data (CNTR0L) (D 7-D0)		-	-				
608	MSP Read Data (STANDARD RES) (D15-D8)		-	-				
609	MSP Read Data (STANDARD RES) (D 7-D0)		-	-				
610	MSP Read Data (STATUS) (D15-D8)		-	-				
611	MSP Read Data (STATUS) (D 7-D0)		-	-				
612	TA1391FG Read Data(00h)		-	-				
613	TA1391FG Read Data(01h)		-	-				
614	TA1391FG Read Data(02h)		-	-				
615	TA1391FG Read Data(03h)		-	-				
616	TA1391FG Read Data(04h)		-	-				
617	TA1391FG Read Data(05h)		-	-				
618	TA1391FG Read Data(06h)		-	-				
619	TA1391FG Read Data(07h)		-	-				
620	TA1370G Read Data(00h)		-	-				
621	TA1370G Read Data(01h)		-	-				
622	SiI9993 Read Data SYNC1 : VSYNC/Clock detect/Sync detect 1		-	-				
623	SiI9993 Read Data NHRDL1 : N hardware value 1		-	-				
624	SiI9993 Read Data NHRDM1 : N hardware value 1		-	-				
625	SiI9993 Read Data NHRDH1 : N hardware value 1		-	-				
626	SiI9993 Read Data CHRDL1 : CTS hardware value 1		-	-				
627	SiI9993 Read Data CHRDM1 : CTS hardware value 1		-	-				
628	SiI9993 Read Data CHRDH1 : CTS hardware value 1		-	-				
629	SiI9993 Read Data ACR1 : ACR PLL hardware value 1		-	-				
630	SiI9993 Read Data ACS1 : ACR PLL hardware value 1		-	-				
631	SiI9993 Read Data SFREQ1 : "Extracted Sampling Frequency 1 channel status b24-27(same value at 0x30)"		-	-				
632	SiI9993 Read Data CLKFRQ1: Clock Accuracy/Sampling Frequency 1		-	-				
633	SiI9993 Read Data ALNG1 : Audio length/Audio length max 1		-	-				
634	SiI9993 Read Data MT MD1 : AV mute/HDMI mode 1		-	-				
635	SiI9993 Read Data VTYP1 : AVI infoframe type code 1		-	-				
636	SiI9993 Read Data VVER1 : AVI infoframe version code 1		-	-				
637	SiI9993 Read Data VINFO11: AVI infoframe data 1		-	-				
638	SiI9993 Read Data VINFO21:		-	-				
639	SiI9993 Read Data VINFO31:		-	-				
640	SiI9993 Read Data VINFO41:		-	-				
641	SiI9993 Read Data VINFO51:		-	-				
642	SiI9993 Read Data ATYP1 : AUDIO InfoFrame Type Code 1		-	-				
643	SiI9993 Read Data AVER1 : AUDIO InfoFrame Version Code 1		-	-				
644	SiI9993 Read Data AINFO11: AUDIO InfoFrame Data Bytes 1		-	-				
645	SiI9993 Read Data AINFO21:		-	-				
646	SiI9993 Read Data AINFO31:		-	-				
647	SiI9993 Read Data AINFO41:		-	-				
648	SiI9993 Read Data AINFO51:		-	-				
649	Initialize function for EEPROM of Video PWB board		1	0				
650	Check condition of EEPROM of Video PWB board	0:Normal, 1:Abnormal(Fail or no assembly)	1	-				
651	W/B Initialize		1	-				
652	Gain adjustment of RGB amplifier (FLAON)	Main	-	-	0			
653	Gain adjustment of RGB amplifier	Sub	-	-	0			
654	Automatic White Peak Adj.	Single Picture mode	-	-				
655	Automatic Color Level Adj. (TB1274BF)	Main PAL/NTSC(COMPOSITE)	-	-				
656	Automatic Color Level Adj. (TB1274BF)	Sub PAL/NTSC(COMPOSITE)	-	-				
657	Automatic White Peak Adj.	Multi Picture mode	-	-				
658	EEPROM Initialize(0:No, 1:Yes)		1	0				
659	Enter to SUB adjust menu		-	-				
660	Enter to service menu of FC sub mi-con		-	-				

42PD7200 (PW2)

● Service adjustment items by I²C-bus control (SUB adjust menu)

(*The change to a sub menu. press “ok” key after no.659 with a main menu)

O : should be adjusted

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ADJ No.	Function		Max. Value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
0	R DRIVE1 [RF/VIDEO/DSUB-COMP]	COOL	255	255	Δ			0
1	G DRIVE1 [RF/VIDEO/DSUB-COMP]	COOL	255	255	Δ			0
2	B DRIVE1 [RF/VIDEO/DSUB-COMP]	COOL	255	255	Δ			0
3	R DRIVE2 [RF/VIDEO/DSUB-COMP]	NORMAL	255	255	Δ			0
4	G DRIVE2 [RF/VIDEO/DSUB-COMP]	NORMAL	255	255	Δ			0
5	B DRIVE2 [RF/VIDEO/DSUB-COMP]	NORMAL	255	255	Δ			0
6	R DRIVE3 [RF/VIDEO/DSUB-COMP]	WARM	255	255	Δ			0
7	G DRIVE3 [RF/VIDEO/DSUB-COMP]	WARM	255	255	Δ			0
8	B DRIVE3 [RF/VIDEO/DSUB-COMP]	WARM	255	255	Δ			0
9	R DRIVE4 [RF/VIDEO/DSUB-COMP]	BLACK & WHITE	255	255	Δ			0
10	G DRIVE4 [RF/VIDEO/DSUB-COMP]	BLACK & WHITE	255	255	Δ			0
11	B DRIVE4 [RF/VIDEO/DSUB-COMP]	BLACK & WHITE	255	255	Δ			0
12	R DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	255	Δ			0
13	G DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	255	Δ			0
14	B DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB]	COOL	255	255	Δ			0
15	R DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB]	NORMAL	255	255	Δ			0
16	G DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB]	NORMAL	255	255	Δ			0
17	B DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB]	NORMAL	255	255	Δ			0
18	R DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	255	Δ			0
19	G DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	255	Δ			0
20	B DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB]	WARM	255	255	Δ			0
21	R DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB]	BLACK & WHITE	255	255	Δ			0
22	G DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB]	BLACK & WHITE	255	255	Δ			0
23	B DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB]	BLACK & WHITE	255	255	Δ			0
24	Brightness Center (CM)	NTSC/PAL/ Multi picture	254	128				
25	Brightness Center (CM)	Scart-RGB(50/60Hz)	254	128				
26	Brightness Center (CM)	480i/576i/480p/576p	254	128				
27	Brightness Center (CM)	1080i-50/60/720p	254	124				
28	Brightness Center (CM)	DVI-PC	254	128				
29	Brightness Center (CM)	DVI-STB	254	128				
30	Brightness Center (CM)	DSUB-RGB	254	128				
31	Brightness Center (CM)	Expand DSUB-RGB (Reserved)	254	128				
32	Brightness Center (CM)	HDMI	254	128				
33	Brightness center (CM) offset	AV1	254	127				
34	Brightness center (CM) offset	AV2	254	127				
35	Brightness center (CM) offset	AV3	254	127				
36	Brightness center (CM) offset	AV4	254	127				
37	Brightness center (CM) offset	AV5	254	127				
38	Brightness center (CM) offset	DSUB-COMP	254	127				
39	Color Center (CM)	SD(YCbCr)(50Hz)	127	72				
40	Color Center (CM)	SD(YCbCr)(60Hz)	127	68				
41	Color Center (CM)	Scart-RGB(50/60Hz)	127	70				
42	Color Center (CM)	HD(YPbPr)(50/60Hz)	127	70				
43	Color Center (CM)	DVI-PC	127	64				
44	Color Center (CM)	DVI-STB (480i/576i/480p/576p)	127	62				
45	Color Center (CM)	DVI-STB (1080i-50/60/720p)	127	62				
46	Color Center (CM)	DVI-STB (VGA)	127	62				
47	Color Center (CM)	DSUB-RGB	127	64				
48	Tint Center (CM)	PAL	254	125				
49	Tint Center (CM)	Scart-RGB(50Hz)	254	121				
50	Tint Center (CM)	Scart-RGB(60Hz)	254	120				
51	Tint Center (CM)	SD(YCbCr)(50Hz)	254	123				
52	Tint Center (CM)	SD(YCbCr)(60Hz)	254	130				
53	Tint Center (CM)	HD(YPbPr)(50/60Hz)	254	135				
54	Tint Center (CM)	DVI-PC	254	128				
55	Tint Center (CM)	DVI-STB (480i/576i/480p/576p)	254	128				
56	Tint Center (CM)	DVI-STB (1080i-50/60/720p)	254	128				
57	Tint Center (CM)	DVI-STB (VGA)	254	128				
58	Tint Center (CM)	DSUB-RGB	254	128				
59	Center of Sharpness (Y-Enhancer Gain for HV)	RF	31	10				
60	Center of Sharpness (Y-Enhancer Gain for HV)	VIDEO	31	15				
61	Center of Sharpness (Y-Enhancer Gain for HV)	Scart-RGB(50/60Hz)	31	14				
62	Center of Sharpness (Y-Enhancer Gain for HV)	480i/576i	31	10				
63	Center of Sharpness (Y-Enhancer Gain for HV)	480p/576p	31	15				
64	Center of Sharpness (Y-Enhancer Gain for HV)	720p	31	6				
65	Center of Sharpness (Y-Enhancer Gain for HV)	1080i-50/60	31	10				
66	Center of Sharpness (Y-Enhancer Gain for HV)	TEXT(for split)	31	19				
67	Center of Sharpness (Y-Enhancer Gain for HV)	DVI-STB (480i/576i)	31	14				
68	Center of Sharpness (Y-Enhancer Gain for HV)	DVI-STB (480p/576p)	31	10				
69	Center of Sharpness (Y-Enhancer Gain for HV)	DVI-STB (720p)	31	6				
70	Center of Sharpness (Y-Enhancer Gain for HV)	DVI-STB (1080i-50/60)	31	10				
71	Center of Sharpness (Y-Enhancer Gain for HV)	DVI-STB (VGA)	31	10				
72	Contrast Center (CM)	RF	254	137				
73	Contrast Center (CM)	AV1	254	137				
74	Contrast Center (CM)	AV2	254	137				
75	Contrast Center (CM)	AV3	254	137				
76	Contrast Center (CM)	AV4	254	137				
77	Contrast Center (CM)	AV5	254	137				
78	Contrast Center (CM)	DVI-PC	254	128				
79	Contrast Center (CM)	DVI-STB (With Setup)	254	149				
80	Contrast Center (CM)	DVI-STB (Without Setup)	254	128				
81	Contrast Center (CM)	DSUB-RGB	254	128				
82	Contrast Center (CM)	Expand DSUB-RGB (Reserved)	254	128				
83	Contrast Center (CM)	DSUB-COMP	254	137				
84	Maximum Value of Contrast at REAL/NORMAL mode		254	188				
85	Offset Value of Contrast data at SPLIT mode		120	53				
86	Offset value of gain for Black Stretch function	Except OFF/LOW/HIGH mode	63	32				
87	Horizontal Enhance	TEXT	3	3				
88	Vertical Enhance	TEXT	3	3				
89	Horizontal filter SW [HHPF0]	NTSC/480i	1	0				
90	[Enhancer Gain] [HHPF1]	PAL/576i	1	0				
91	[HHPF2]	480p/576p/1080i-50/60/720p	1	0				

42PD7200 (PW2)

O : shoule be adjusted

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ADJ No.	Function		Max. Value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
92	Horizontal Coring Level [HECOR1]	NTSC-RF	15	3				
93	(Enhancer Gain) [HECOR2]	PAL-RF/ Multi picture	15	2				
94	[HECOR3]	NTSC-VIDEO	15	1				
95	[HECOR4]	PAL-VIDEO	15	1				
96	[HECOR5]	Scart-RGB(50/60Hz)	15	15				
97	[HECOR5]	480i/576i	15	2				
98	[HECOR6]	480p/576p	15	1				
99	[HECOR7]	1080i-50/60/720p	15	1				
100	[HECORPC]	PC	15	1				
101	Vertical Coring Level [VECOR1]	NTSC-RF	15	1				
102	(Enhancer Gain) [VECOR2]	PAL-RF/ Multi picture	15	8				
103	[VECOR3]	NTSC-VIDEO	15	1				
104	[VECOR4]	PAL-VIDEO	15	1				
105	[VECOR5]	Scart-RGB(50/60Hz)	15	15				
106	[VECOR5]	480i/576i	15	0				
107	[VECOR6]	480p/576p	15	15				
108	[VECOR7]	1080i-50/60/720p	15	15				
109	[VECORPC]	PC	15	0				
110	Enhancer gain of VH for C	TEXT	31	0				
111	Coring Amplitude for Y/G [YC0R0]	NTSC/PAL-RF/ Multi picture	7	7				
112	[YC0R1]	NTSC/PAL-VIDEO	7	5				
113	[YC0R2]	480i/576i/Scart-RGB(50/60Hz)	7	4				
114	[YC0R3]	480p/576p	7	1				
115	[YC0R4]	1080i-50/60/720p	7	1				
116	[YC0R5]	NTSC/PAL S-input	7	4				
117	Coring Amplitude for B-Y/B,R-Y/R [CC0R0]	NTSC/PAL/480i/576i/ Multi picture	7	1				
118	[CC0R1]	480p/576p/1080i-50/60/720p	7	1				
119	YFRNR input Gain(Main) 2pictures [MYNRG0]	HD-except HD	7	1				
120	HD-NTSC, HD-PAL (sub) [MYNRG1]	HD-HD	7	4				
121	4pictures [MYNRG2]	NT-* /PAL-*	7	1				
122	[MYNRG3]	HD-*	7	4				
123	YFRNR input Gain(Sub) [YCNRG0]	2pictures	7	4				
124	[YCNRG1]	4pictures/12pictures	7	1				
125	CFRNR input Gain(Main) 2pictures [MCNRG0]	HD-except HD	7	3				
126	HD-NTSC, HD-PAL (SUB) [MCNRG1]	HD-HD	7	4				
127	[MCNRG2]	NT-* /PAL-*	7	4				
128	[MCNRG3]	HD-*	7	4				
129	CFRNR input Gain(Sub) [SCNRG0]	2pictures	7	3				
130	[SCNRG1]	4pictures/12pictures	7	4				
131	Vertical Enhancer Gain for Y/G [YVEG0]	NTSC/PAL(-except RF)/480i/576i	15	15				
132	[YVEG1]	480p/576p	15	4				
133	[YVEG2]	1080i-50/60/720p	15	15				
134	[YVEG3]	PAL(-RF)/ Multi picture	15	15				
135	Vertical DSB Gain for Y/G [YVDSBG0]	NTSC/PAL/480i/576i/ Multi picture	3	3				
136	[YVDSBG1]	480p/576p	3	0				
137	[YVDSBG2]	1080i-50/60/720p	3	2				
138	Vertical DSB Coring for Y/G [YVDSBC0]	NTSC/PAL/480i/576i/ Multi picture	7	7				
139	[YVDSBC1]	480p/576p/1080i-50/60/720p	7	0				
140	Vertical Enhancer Clip for Y/G 0:LTi [YVECLP0]	NTSC/PAL/480i/576i/ Multi picture	1	1				
141	[YVECLP1]	480p/576p/1080i-50/60/720p	1	0				
142	Vertical Clip Offset Level [YVECLPL0]	NTSC/PAL/480i/576i/ Multi picture	15	15				
143	[YVECLPL1]	480p/576p/1080i-50/60/720p	15	8				
144	Vertical Non Linear Peaking for Y/G [YVNLPL0]	NTSC/PAL/480i/576i/ Multi picture	63	0				
145	[YVNLPL1]	480p/576p/1080i-50/60/720p	63	0				
146	Horizontal Enhancer Gain for Y/R [YHEG0]	NTSC/PAL(-except RF)/480i/576i	15	15				
147	[YHEG1]	480p/576p	15	15				
148	[YHEG2]	1080i-50/60/720p-60	15	15				
149	[YHEG3]	PAL(-RF)/ Multi picture	15	15				
150	Horizontal DSB Gain for Y/R [YHDSBG0]	NTSC/PAL/480i/576i/ Multi picture	3	2				
151	[YHDSBG1]	480p/576p	3	0				
152	[YHDSBG2]	1080i-50/60/720p	3	2				
153	Horizontal DSB Coring for Y/R [YHDSBC0]	NTSC/PAL/480i/576i/ Multi picture	7	7				
154	[YHDSBC1]	480p/576p/1080i-50/60/720p	7	7				
155	Horizontal Enhancer Clip for Y/R 0:LTi [YHDSBC0]	NTSC/PAL/480i/576i/ Multi picture	1	0				
156	[YHDSBC1]	480p/576p/1080i-50/60/720p	1	0				
157	Horizontal Clip Offset Level for Y/R [YHECLPL0]	RF/ Multi picture	15	4				
158	[YHECLPL1]	NTSC/PAL-VIDEO	15	4				
159	[YHECLPL3]	480i/576i/Scart-RGB(50/60Hz)	15	10				
160	[YHECLPL2]	480p/576p/1080i-50/60/720p	15	1				
161	Horizontal Non Linear Peaking for Y/G [YHNLPL0]	NTSC/PAL/480i/576i/ Multi picture	63	0				
162	[YHNLPL1]	480p/576p/1080i-50/60/720p	63	0				
163	Horizontal HPF Peak Freq. SW for Y/R [YHHPF0]	NTSC/PAL/480i/576i/ Multi picture	3	2				
164	[YHHPF1]	480p/576p	3	2				
165	[YHHPF2]	1080i-50/60/720p	3	2				
166	Initial value of Contrast	Extend 1 of Panel Life function	127	93				
167	Interval time of correction time	Extend 1 of Panel Life function	127	10				
168	Additional value of Contrast	Extend 1 of Panel Life function	127	1				
169	Initial value of Contrast	Extend 2 of Panel Life function	127	63				
170	Interval time of correction time	Extend 2 of Panel Life function	127	6				
171	Additional value of Contrast	Extend 2 of Panel Life function	127	1				
172	Menu Init. Contrast (-31[0]~+40[71])	For Dynamic	71	62				
173	Menu Init. Contrast (-31[0]~+40[71])	For Natural	71	62				
174	Menu Init. Contrast (-31[0]~+40[71])	For Cinema	71	51				
175	Menu Init. Brightness (-31[0]~+31[62])	For Dynamic	62	31				
176	Menu Init. Brightness (-31[0]~+31[62])	For Natural	62	31				
177	Menu Init. Brightness (-31[0]~+31[62])	For Cinema	62	33				
178	Menu Init. Color (-31[0]~+31[62])	For Dynamic	62	36				
179	Menu Init. Color (-31[0]~+31[62])	For Natural	62	31				
180	Menu Init. Color (-31[0]~+31[62])	For Cinema	62	21				
181	Menu Init. Sharpness (-15[0]~+15[30])	For Dynamic	30	20				
182	Menu Init. Sharpness (-15[0]~+15[30])	For Natural	30	15				
183	Menu Init. Sharpness (-15[0]~+15[30])	For Cinema	30	10				

42PD7200 (PW2)

O : should be adjusted

Δ : should be followed previous data

ADJ No.	Function		Max. Value	Default	Changed Component			
	ADJ. Items	Mode			FORMATTER PWB	VIDEO PWB	TUNER PWB	PDP PANEL
184	Menu Init. Color Temp.(Cool[0]/Normal[1]/Warm[2]/B&W[3])	For Dynamic	3	0				
185	Menu Init. Color Temp.(Cool[0]/Normal[1]/Warm[2]/B&W[3])	For Natural	3	1				
186	Menu Init. Color Temp.(Cool[0]/Normal[1]/Warm[2]/B&W[3])	For Cinema	3	2				
187	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Dynamic	3	2				
188	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Natural	3	1				
189	Menu Init. Black stretch (Off[0]/Low[1]/Mid.[2]/High[3])	For Cinema	3	0				
190	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Dynamic	2	0				
191	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Natural	2	0				
192	Menu Init. YNR (Off[0]/Low[1]/High[2])	For Cinema	2	0				
193	Menu Init. LTI (Off[0]/Low[1]/Mid.[2]/High[3])	For Dynamic	3	2				
194	Menu Init. LTI (Off[0]/Low[1]/Mid.[2]/High[3])	For Natural	3	1				
195	Menu Init. LTI (Off[0]/Low[1]/Mid.[2]/High[3])	For Cinema	3	0				
196	Center of Sharpness (HV Enhancer Gain for Y)	HDMI (480i/576i)	31	10				
197	Center of Sharpness (HV Enhancer Gain for Y)	HDMI (480p/576p)	31	10				
198	Center of Sharpness (HV Enhancer Gain for Y)	HDMI (720p)	31	6				
199	Center of Sharpness (HV Enhancer Gain for Y)	HDMI (1080i-50/60)	31	6				
200	Center of Sharpness (HV Enhancer Gain for Y)	HDMI (VGA)	31	10				
201	Color Center (CM)	HDMI-YCbCr(50Hz:576i/576p)	127	65				
202	Color Center (CM)	HDMI-YCbCr(60Hz:480i/480p)	127	65				
203	Color Center (CM)	HDMI-YPbPr(1080i-50/60/720p)	127	65				
204	Tint Center (CM)	HDMI-YCbCr(50Hz:576i/576p)	254	126				
205	Tint Center (CM)	HDMI-YCbCr(60Hz:480i/480p)	254	126				
206	Tint Center (CM)	HDMI-YPbPr(1080i-50/60/720p)	254	126				
207	Sharpness Gain(RF) BG/DK/I	Main	15	8				
208	Sharpness Gain(RF) M	Main	15	8				
209	Sharpness Gain(RF) L	Main	15	8				
210	Sharpness Gain(RF) L'	Main	15	8				
211	Sharpness Gain(VIDEO) PAL	Main	15	10				
212	Sharpness Gain(VIDEO) NTSC3.58	Main	15	10				
213	Sharpness Gain(VIDEO) SECAM,B/W	Main	15	8				
214	Sharpness Gain(VIDEO) NTSC4.43	Main	15	8				
215	Sharpness Gain(VIDEO) N-PAL	Main	15	8				
216	Sharpness Gain(VIDEO) M-PAL	Main	15	8				
217	Sharpness Gain(S.VIDEO)	Main	15	7				
218	Horizontal HPF Peak Frequency	720p-50	15	5				

● Factory Reset

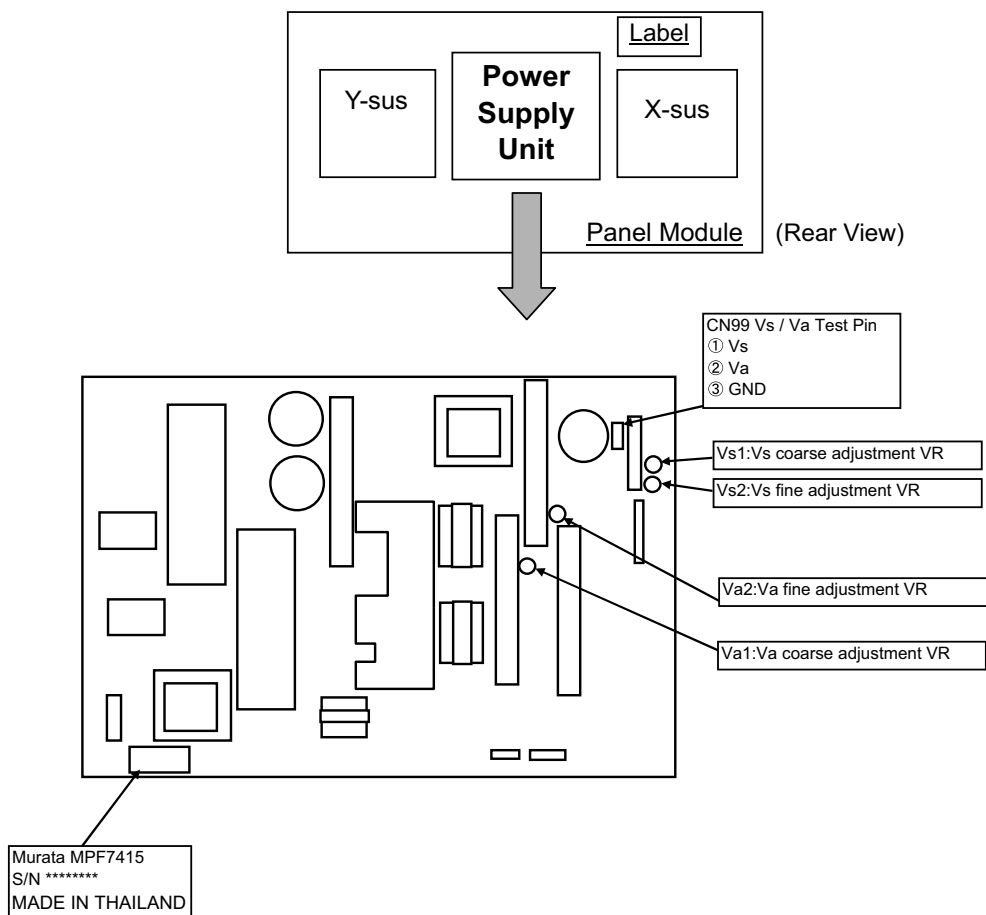
After all of the adjustments of main chassis are finished, perform FACTORY RESET.

Press the SUB-POWER(⏻) button, INPUT SELECT(⏮) button and ▲ button at the same time, and hold for more than 5 seconds.

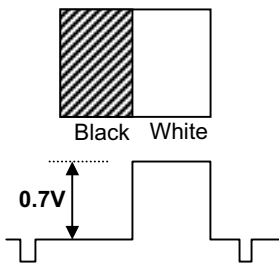
The unit is set to factory settings.

42PD7200 (PW2)

Item	Power Unit Vs, Va Adjustment	
Applicable Model	All models	
Preparation		Procedure
(1)	Turn on the set and perform pre-heat run more than 1 min on burn-in screen.	(1) Turn Vs ADJ to adjust Vs voltage to be within $\pm 0.1V$ of the value specified in the label on the panel. ① Adjust within $\pm 1V$ at Vs1 ② Adjust within $\pm 0.1V$ at Vs2
(2)	Receive full back pattern signal (or Video silence signal; but it will be automatically turned off after a few seconds by power save function.)	(2) Turn Va ADJ to adjust Va voltage to be within $\pm 0.2V$ of the value specified in the label on the panel. ① Adjust within $\pm 1V$ at Va1 ② Adjust within $\pm 0.2V$ at Va2
(3)	Connect voltmeter leads to Vs (or Va) and GND test points of the power unit.	(3) Reconfirm that Vs voltage remains within $\pm 0.1V$ of the specified value. Readjust if it's outside of the margin. Label example <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p><LOT>N6 Vs= 80.0V Va=60.0V Vw=140.0V Vx=60.0V</p> </div>

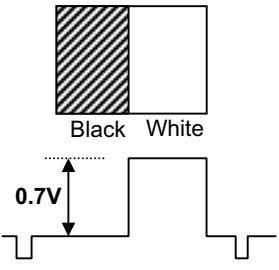


42PD7200 (PW2)

Item		RGB Amplitude Adjustment (PC D-Sub input)	
Applicable Model		All models	
Preparation		Procedure	
(1)	Input RGB amplitude adjustment signal of VGA (60Hz) into RGB2 [D-sub] terminal. <div style="border: 1px dashed black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Black pattern: Set pedestal level. Characters must not be inserted into this signal.</p>  <p style="text-align: center;">Black White</p> </div>	(1)	Receive PC signal (VGA [60Hz]), and indicate Service Adjustment Menu.(Main)
		(2)	Select No.652 of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the OSD reappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

Item		RGB Amplitude Adjustment (Main/Sub)	
Applicable Model		All models	
Preparation		Procedure	
(1)	Input 576p or 480p adjustment signal into AV4 terminal. <div style="border: 1px dashed black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Black pattern: Set pedestal level. Characters must not be inserted into this signal.</p>  <p style="text-align: center;">Black White</p> </div>	(1)	Receive 576p or 480p adjustment signal on AV4 terminal input. Indicate Service Adjustment Menu.
		(2)	Select No.652 (RGB amplitude gain adjustment Main) of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.
		(3)	Select No.653 (RGB amplitude gain adjustment Sub) of Service Adjustment Menu. Press [OK] key more than 2 seconds to start the automatic adjustment. The adjustment completes when the indication [Auto Mode] at the bottom of the screen disappears.

[Note] Never adjust without use of the specified signal.

If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

42PD7200 (PW2)

Item		Video Color Temperature Adjustment (Cool)	
Applicable Model		All models	
Adjustment Preparations		Adjustment Procedures	
(1)	Set the signal generator output as All White.	(1)	Perform the following adjustment with the remote control
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT color analyzer (CA100) at the center of the panel.
(3)	Picture Menu is set as [RESET].	(3)	Ensure that the service adjustment menu (sub menu) No. 0, 1, 2, are all set as 255.
(4)	Confirm that the mode is set as Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 0, 1, 2 and adjust the values as shown below. Note) At least one of the data should be 255.
		<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Specification</p> <p>Video color temperature (Cool)</p> <p>x=0.258±0.005</p> <p>y=0.273±0.005</p> </div>	

42PD7200 (PW2)

Item		Video Color Temperature Adjustment (Normal)	
Applicable Model		All models	
Preparation		Procedure	
(1)	Set signal generator output as All White (Window ratio: 100%).	(1)	Perform the following adjustment with the remote control.
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT Color Analyzer (CA-100) at the center of the panel.
(3)	Check that Picture Menu is set as [RESET] mode.	(3)	Ensure that service adjustment menu (sub) No. 3, 4, 5 are all set as 255.
(4)	Set into Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 3, 4, 5 and adjust the values as shown below. (Note) At least one of the data should be 255.
		<div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <p><Specification> Video color Color temperature (Normal) x=0.285±0.005 y=0.293±0.005</p> </div>	

Item		Video Color Temperature Adjustment (Warm)	
Applicable Model		All models	
Preparation		Procedure	
(1)	Set signal generator output as All White (Window ratio: 100%).	(1)	Perform the following adjustment with the remote control.
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT Color Analyzer (CA100) at the center of the panel.
(3)	Check that Picture Menu is set as [RESET] mode.	(3)	Ensure that service adjustment menu (submenu) No. 6, 7, 8 are all set as 255.
(4)	Set into Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 6, 7, 8 and adjust the values as shown below. (Note) At least one of the data should be 255.
		<div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <p><Specification> Video color Color temperature (Warm) x=0.314±0.005 y=0.327±0.005</p> </div>	

42PD7200 (PW2)

Item		Video Color Temperature Adjustment (B&W)	
Applicable Model		All models	
Preparation		Procedure	
(1)	Set signal generator output as All White (Window ratio: 100%).	(1)	Perform the following adjustment with the remote control.
(2)	Component signal (480i) Video level : 0.700Vp-p Sync level : 0.300Vp-p Setup level : 0V	(2)	Set the CRT Color Analyzer (CA-100) at the center of the panel.
(3)	Check that Picture Menu is set as [RESET] mode.	(3)	Ensure that service adjustment menu (sub menu) No. 9, 10, 11 are all set as 255.
(4)	Set into Factory Adjustment mode.	(4)	After receiving the video signal, step down the two (or one) among adjustment No. 9, 10, 11 and adjust the values as shown below.
			<p>(Note) At least one of the data should be 255.</p> <div style="border: 1px dashed black; padding: 10px; margin: 10px 0;"> <p><Specification> Video color Color temperature (B&W) $x=0.335\pm0.005$ $y=0.343\pm0.005$</p> </div>

Item		PC Color Temperature Adjustment																					
Applicable Model		All models																					
Preparations		Procedures																					
(1)	Perform after the video color temperature adjustment.	(1)	Perform the following adjustment with the remote control																				
(2)	Set into Factory Adjustmentmode.	(2)	<p>Write the results of the video color temp.adjustment (Dynamic/Normal/Warm/B&W) No. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 data into Adjustment No. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 data.</p> <p>* at service Adjustment sub menu.</p> <p>Ex.)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Video adjustment</td><td style="width: 10%;"></td><td style="width: 30%;">PC adjustment</td><td style="width: 30%;"></td></tr> <tr> <td>No.0 data</td><td>→</td><td>No.12 data</td><td></td></tr> <tr> <td>No.1 data</td><td>→</td><td>No.13 data</td><td></td></tr> <tr> <td>No.2 data</td><td>→</td><td>No.14 data</td><td></td></tr> <tr> <td style="text-align: center;">⋮</td><td></td><td style="text-align: center;">⋮</td><td></td></tr> </table>	Video adjustment		PC adjustment		No.0 data	→	No.12 data		No.1 data	→	No.13 data		No.2 data	→	No.14 data		⋮		⋮	
Video adjustment		PC adjustment																					
No.0 data	→	No.12 data																					
No.1 data	→	No.13 data																					
No.2 data	→	No.14 data																					
⋮		⋮																					

7. Troubleshooting

● How to get to Burn-in mode

This mode displays the test patterns of some single color raster in turn. These signals are from built-in generator of PDP panel. So it can be presumed that maybe the panel has some trouble when the screen of Burn-in mode is abnormal.

Using the front control buttons with the set turned off (standby) can activate this mode.

Press the SUB-POWER(⏻) button, INPUT SELECT(↔) button and VOLUME DOWN(⏮) button at the same time, and hold for more than 5 seconds.

The set turns on with single color raster and the OSD of [BURN IN: ON].

To escape from this mode, press the SUB-POWER(⏻) button, INPUT SELECT(↔) button and ▲ button at the same time, and hold for more than 5 seconds. Burn-in mode will be released.

● How to recover the remote and front key function

If remote and front key cannot operate after miss set special function by front keys, these functions can recover by below method.

Press the SUB-POWER(⏻) button, INPUT SELECT(↔) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on the service menu mode.

Select No.535 and data set from [0] to [1], and select No.536 and data set from (0) to (1).

Or

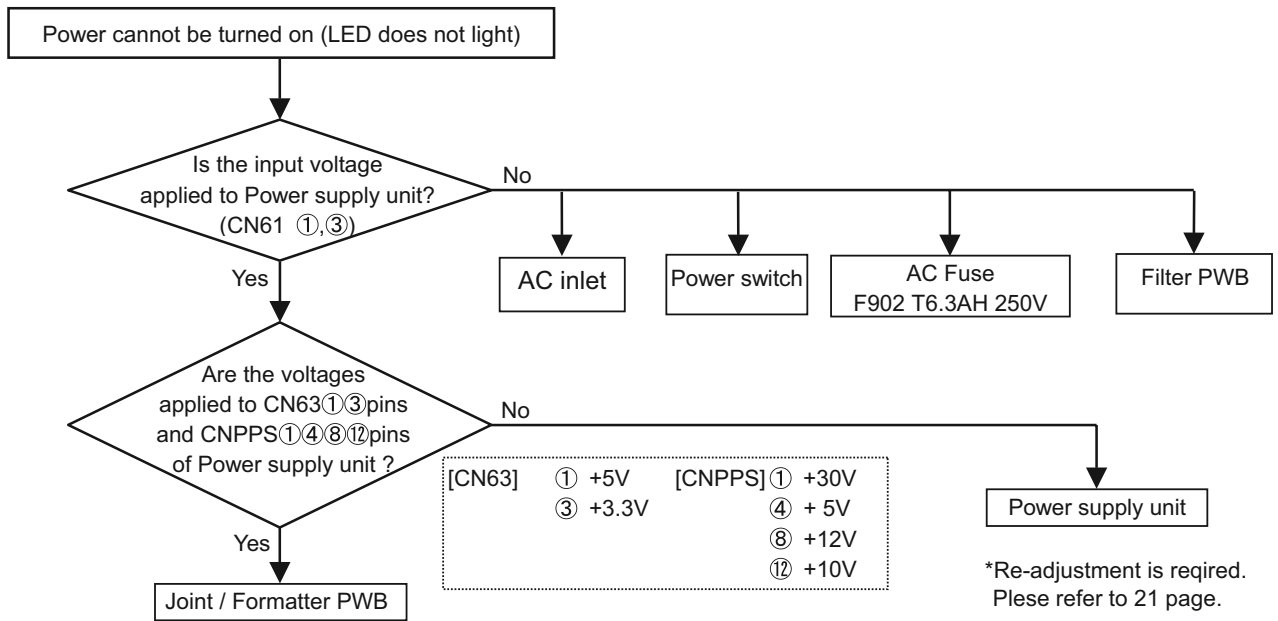
Press the SUB-POWER(⏻) button and ▼ button at the same time, and hold for more than 5 seconds

● How to check method of the use accumulation time for panel.

Select No.518 of Service Adjustment Menu.

42PD7200 (PW2)

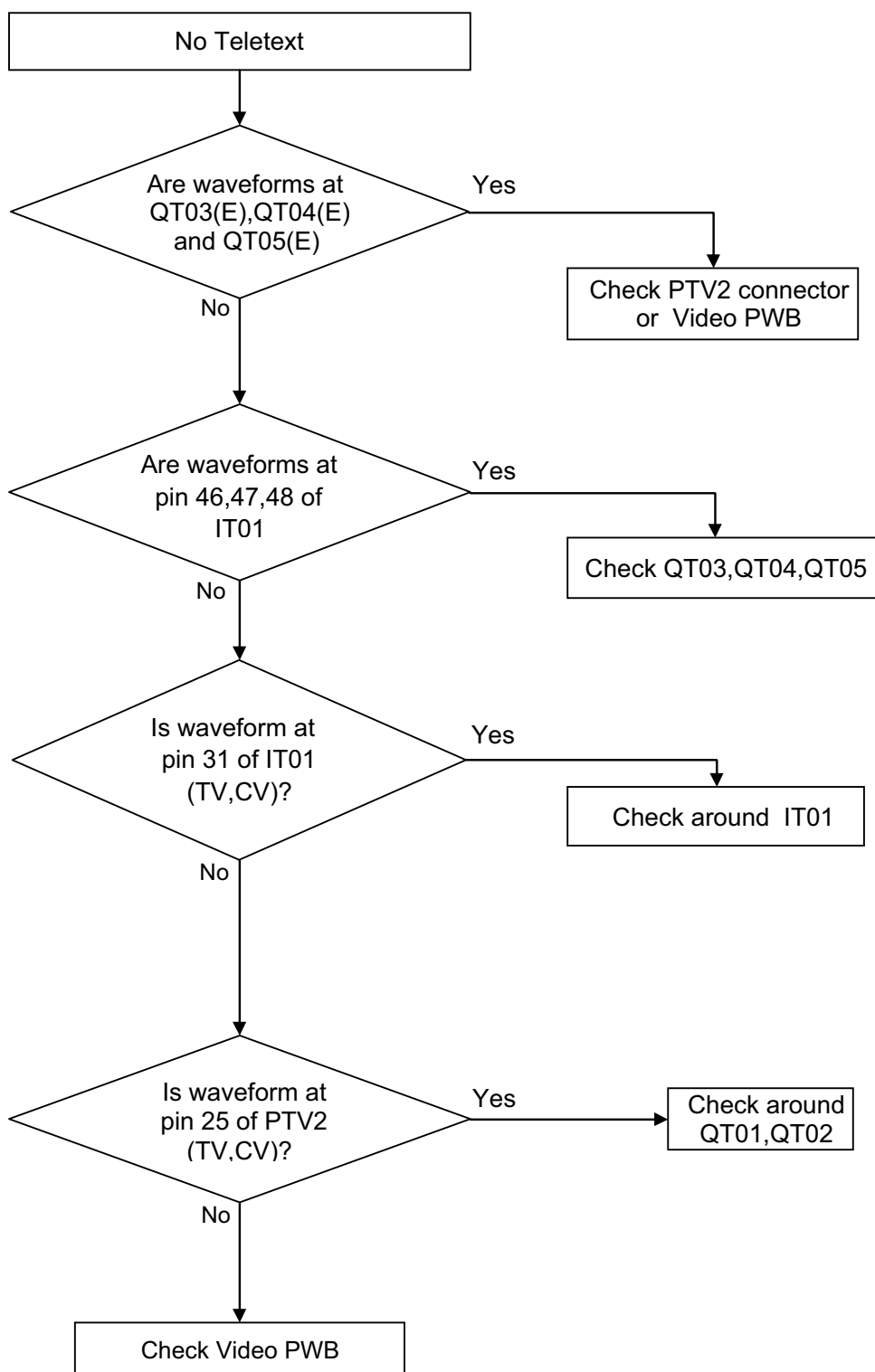
Power



42PD7200 (PW2)

Teletext

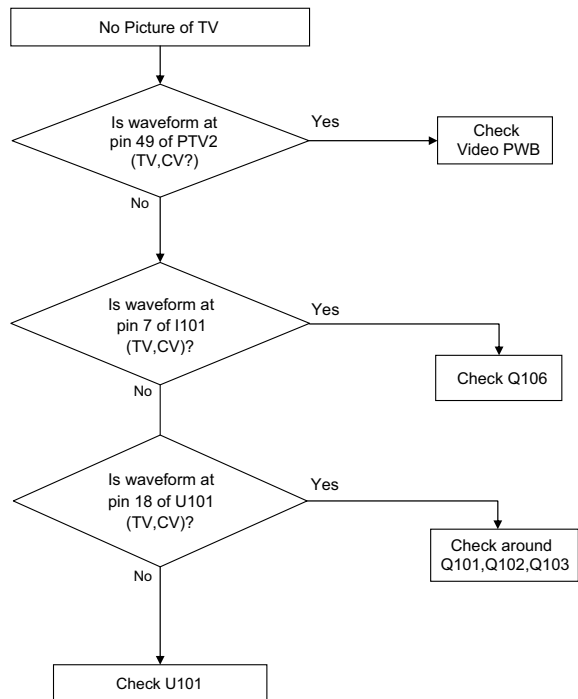
[Tuner PWB Circuit]



42PD7200 (PW2)

TV Signal

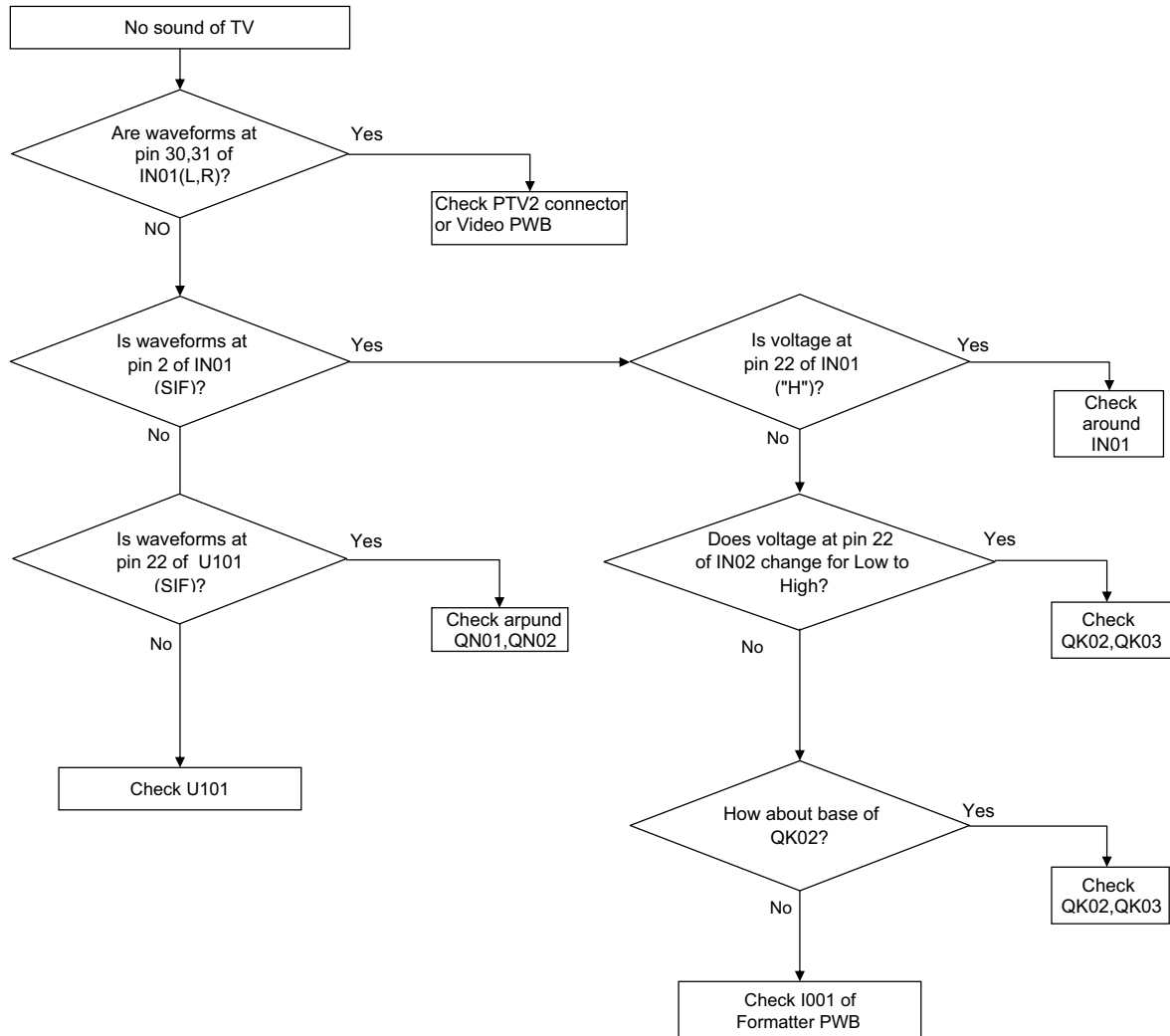
[Tuner PWB Circuit]



42PD7200 (PW2)

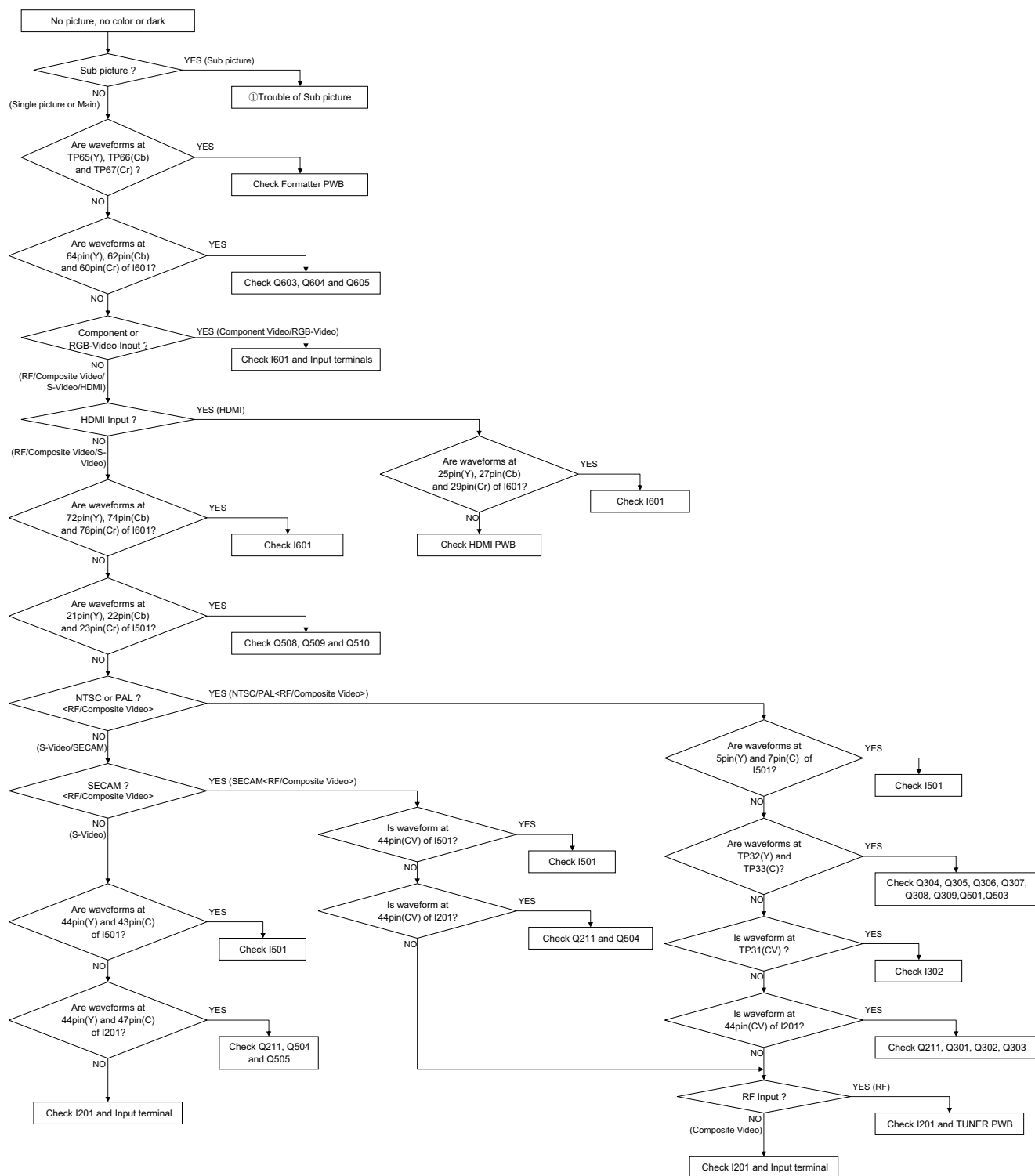
TV Sound

[Tuner PWB Circuit]

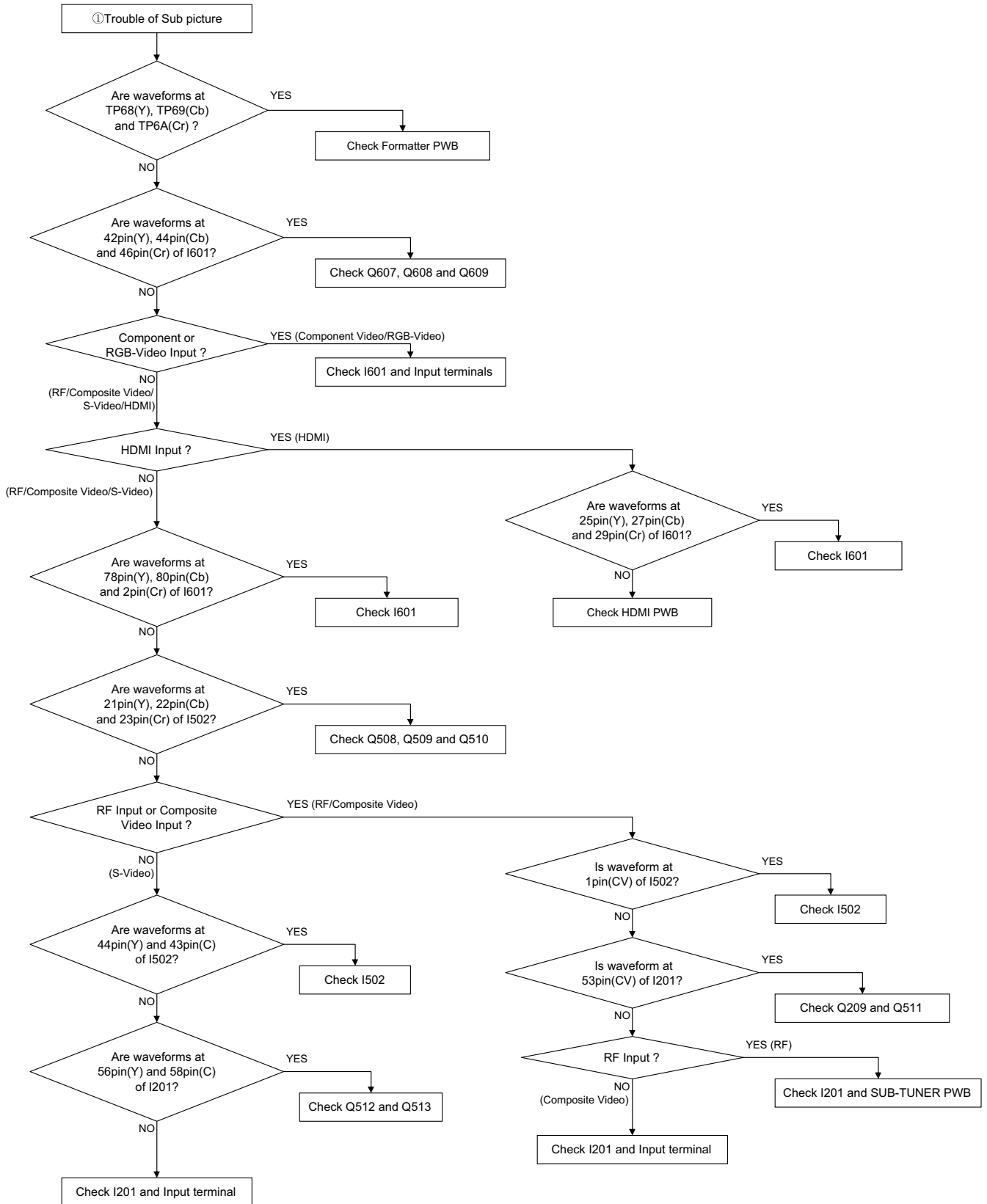


Picture

[Video PWB Circuit]

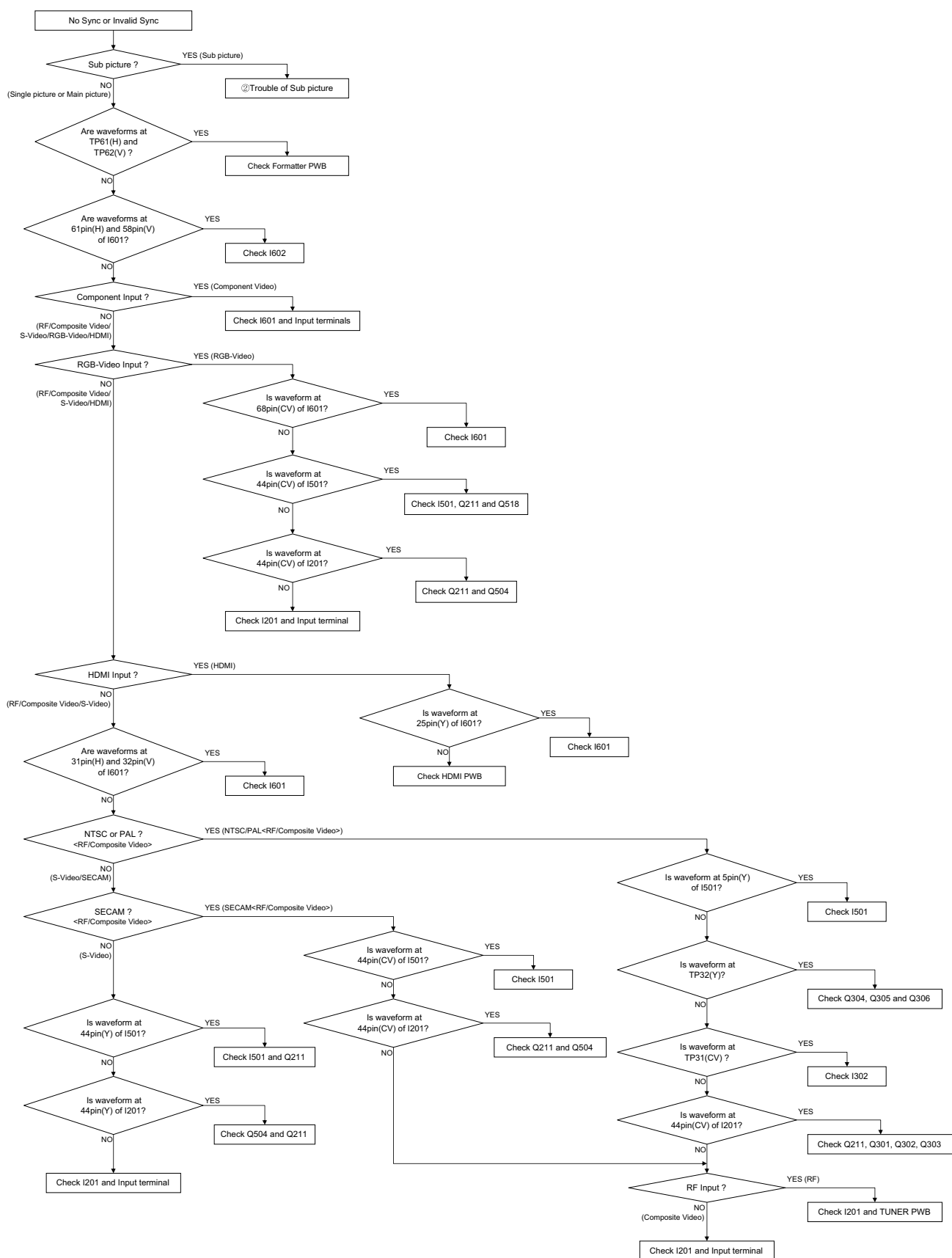


42PD7200 (PW2)

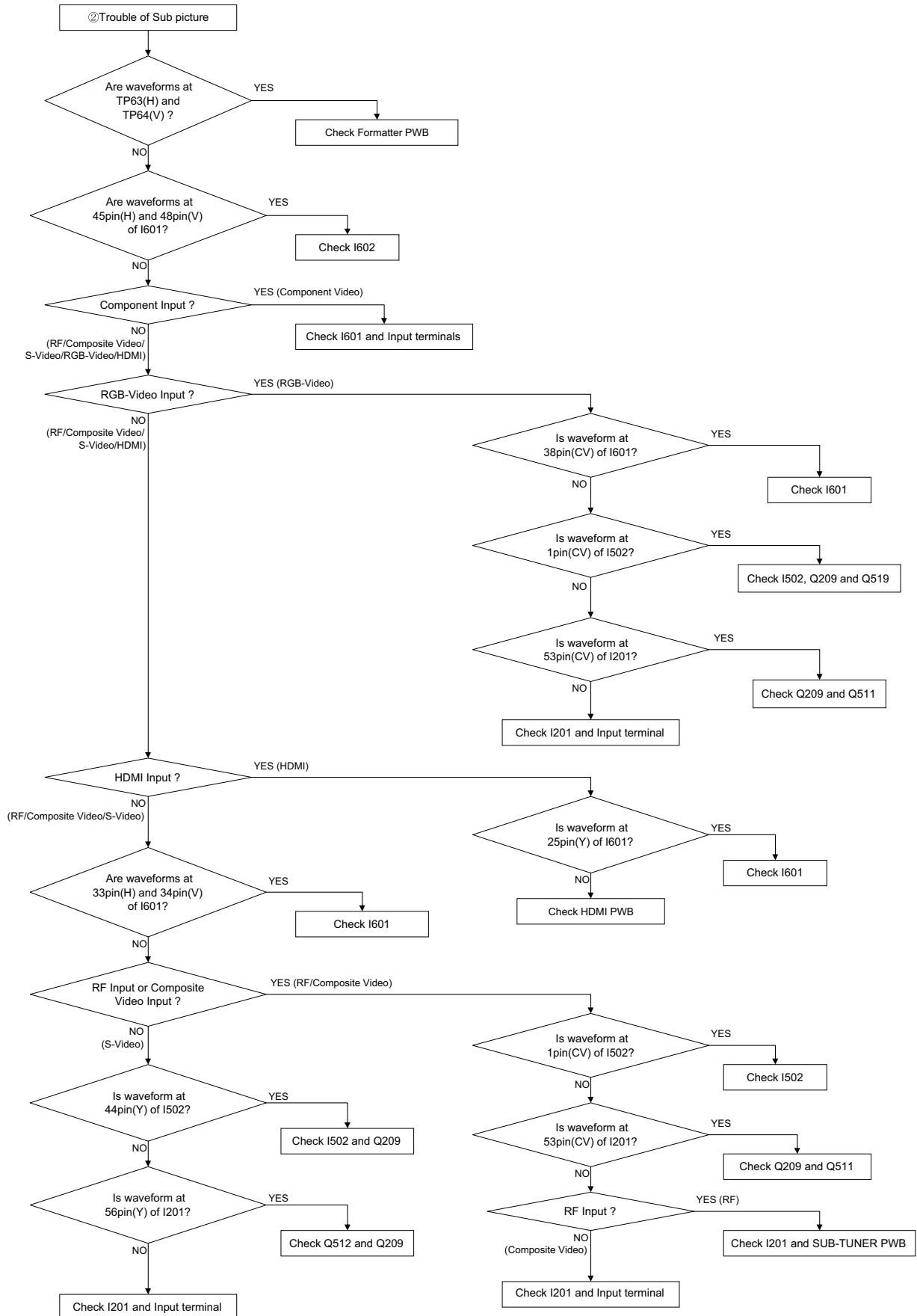


Synchronization

[Video PWB Circuit]



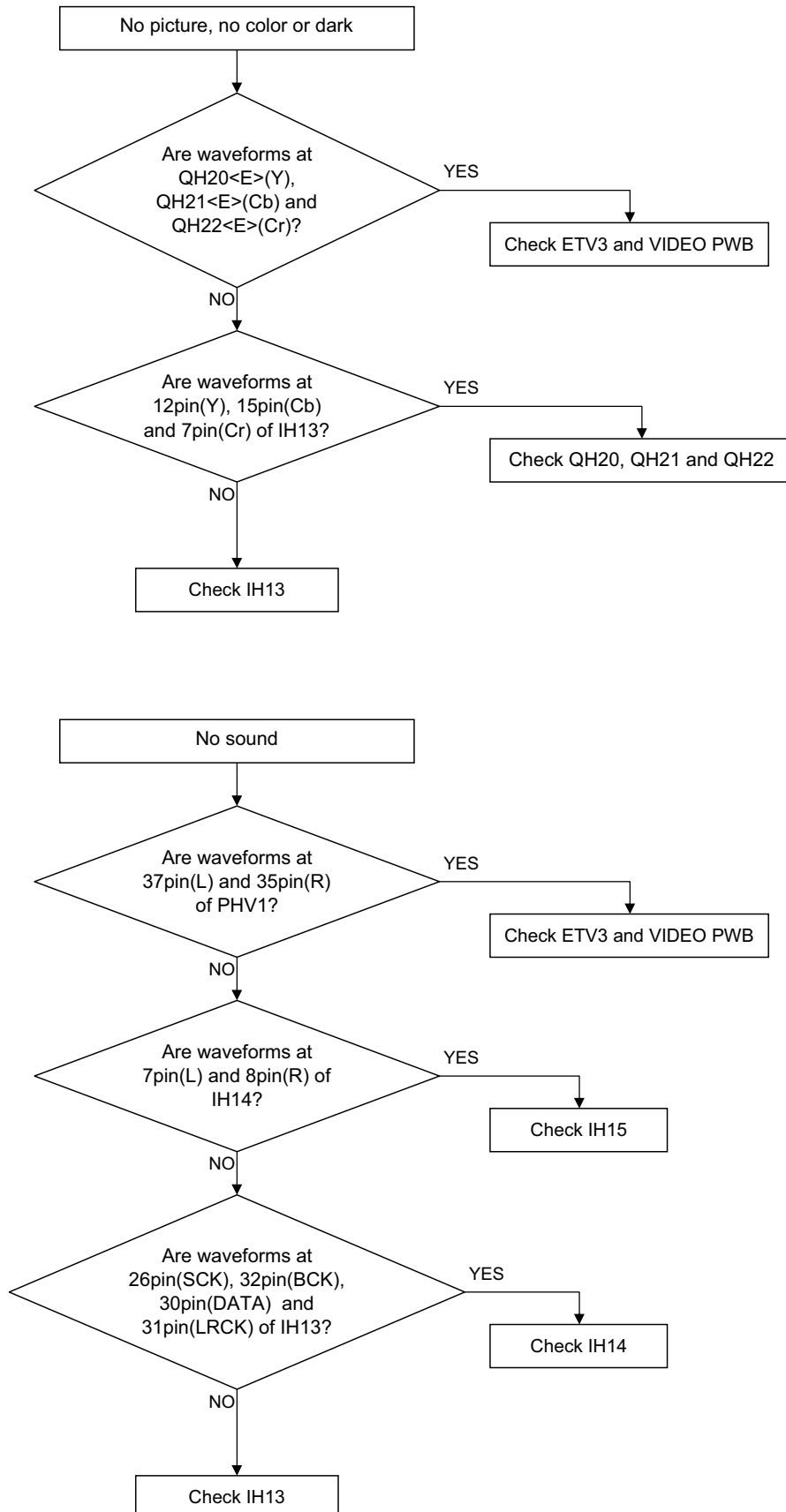
42PD7200 (PW2)



42PD7200 (PW2)

HDMI

[HDMI PWB Circuit]



8. Self-Diagnosis Function

This chassis has 2 modes of self-diagnosis function.

- (1) PDP panel check mode: It indicates the one latest record of the PDP panel failure with blinking of the power indication light (LED).
- (2) Signal circuit check mode: It indicates the check result on some points of the signal circuit and the history of them with On-Screen Display (OSD).

● PDP panel self-diagnosis function

This function is for a PDP panel failure with no picture.

To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER(⏻) button of the monitor or the remote control.

Procedure:

- 1) Press the SUB-POWER(⏻) button and ▼ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) It generates red blinking series of the power indicator light.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The next table shows the PDP PWB in which failure most probably would be allocated according to the number of blinks.

Number of red blinks of power indication light	Presumed failing PWB of PDP panel
1	Logic
2	X-SUS
3	Y-SUS, SDM
4	X-SUS, Y-SUS, SDM, PSU
5	ABUS, ADM, PSU
6	ADM temperature
7	ADM temperature
8	All of above-mentioned PWB's

SDM: Scan Driver Module

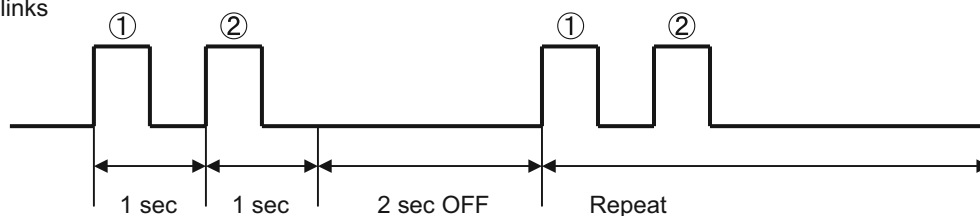
PSU: Power Supply Unit

ADM: Address Driver Module

Note) SDM is permanently contacted to glass part

[Blinking condition of power indication light]

Ex. 2 blinks



● Signal circuit self-diagnosis function

This function is for the failure of the signal circuit, for example the phenomenon as below:

"Sometimes power turns off abnormally." "Sometimes picture disappears abnormally."

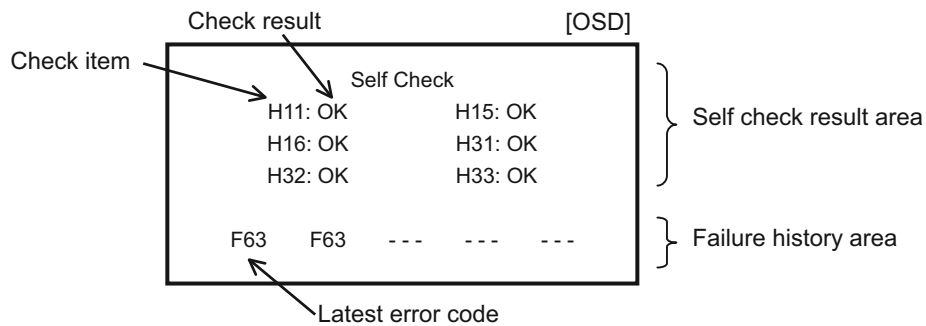
To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

- 1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
- 2) Turn the power off by the SUB-POWER(⏻) button of the monitor or the remote control.

Procedure:

- 1) Press the SUB-POWER(⏻) button and ▲ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
- 2) The monitor will be turned on, and it will display On-Screen Display of the Self-check result and the failure history as below.
- 3) Any operation would cancel the Self -Diagnosis mode.
- 4) The following table shows the OSD symbols and contents of failure PWB in which failure most probably would be allocated according to the number of blinks.



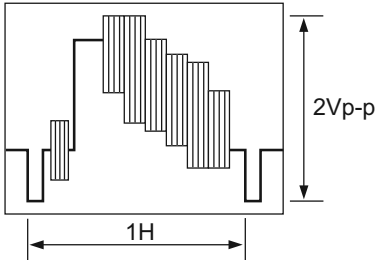
Code	stored up in failure history	Self checking item	Problem	Phenomenon	Cause
C10	—	—	No sync. (Snow noise)	OSD of " ! Check Antenna " appears.	No connection of ANT cable Preset tuning is not yet
H11	—	○	Tuner problem	Cannot receive the main signal from antenna	Communication error of U101
H15	—	○	Composite video SW IC problem	Cannot receive picture and audio Cannot change input mode	Communication error of I201
H16	—	○	Component video SW IC problem	No component picture Cannot change input mode	Communication error of I202
H31	—	○	Color demodulator IC problem	Abnormal color Dark picture	Communication error of I501
H32	—	○	Sync. separator IC problem	Unsynchronized picture	Communication error of I601
H33	—	○	3D Y/C separator IC problem	Abnormal color Dark picture / No picture	Communication error of I302
F63	○	—	I ² C-bus latch problem	Cannot store setting data (Ex. Channel, Volume etc.)	SCL3/SDA3 latched up

If you clear history of failure, make FACTORY RESET: enter the factory setting mode; press the SUB-POWER(⏻) button, INPUT SELECT(↺) button and ▲ button on the bottom of the monitor at the same time. And keep it for more than 5 seconds after the power turned on.

9. Basic circuit diagram

● Waveform

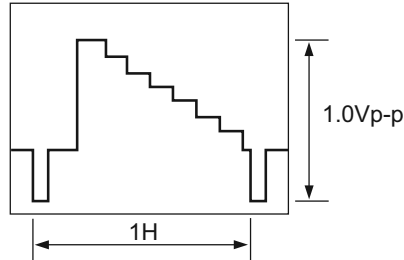
① I201(MAIN.V)(44) PIN



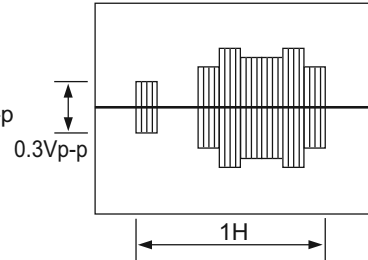
② I201(SUB.V)(53) PIN

③ I501 YIN(S-VIDEO)(44) PIN

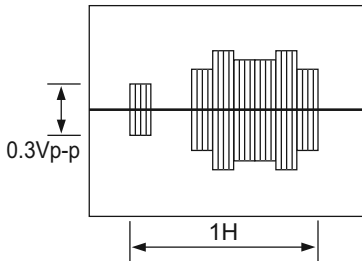
④ I501 YIN(Comb)(5) PIN



⑤ I501 CIN(S-VIDEO)(43) PIN

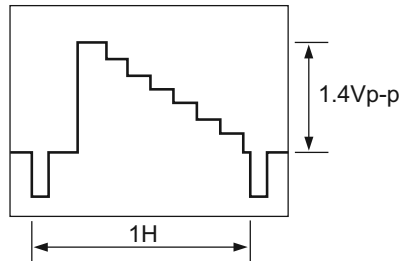


⑥ I501 CIN(Comb)(7) PIN



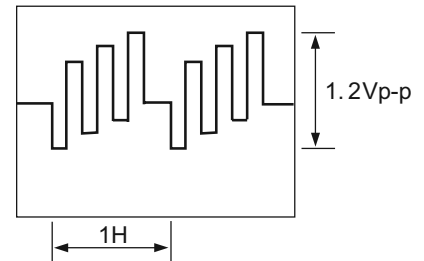
⑦ TP65(MY)

⑧ TP68(SY)



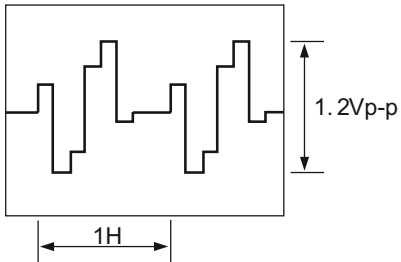
⑨ TP66(MPB)

⑩ TP69(SPB)



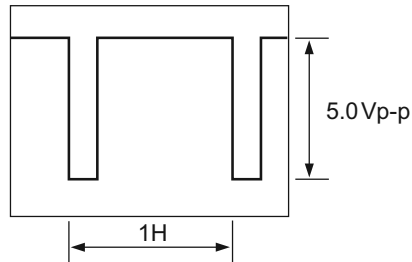
⑪ TP67(MPR)

⑫ TP6A(SCR)



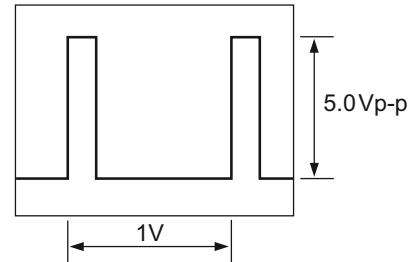
⑬ TP61(MH)

⑭ TP63(SH)



⑮ TP62(MV)

⑯ TP64(SV)

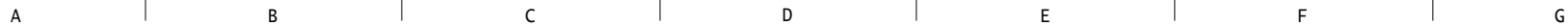


Basic circuit diagram list

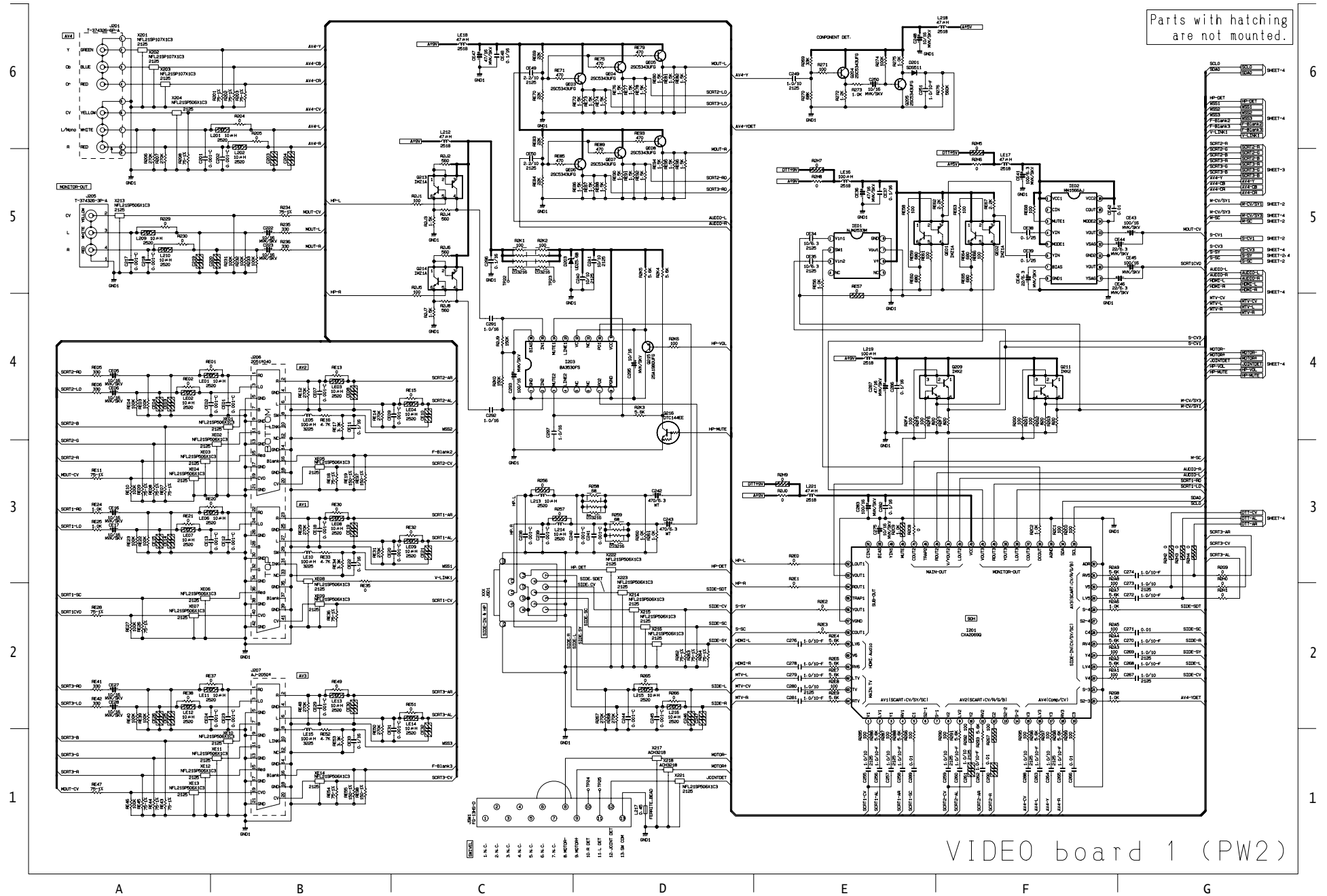
FILTER/TACT SW/LED RECEIVER/	
SP. TERMINAL L/SP. TERMINAL R board	41
VIDEO board 1	42
VIDEO board 2	43
VIDEO board 3	44
VIDEO board 4	45
TUNER board	46
JOINT board 1	47
JOINT board 2	48
AUDIO board	49
HDMI board	50

MEMO

6
—
5
—
4
—
3
—
2
—
1



A vertical axis with tick marks and labels 1, 2, 3, 4, 5, 6.



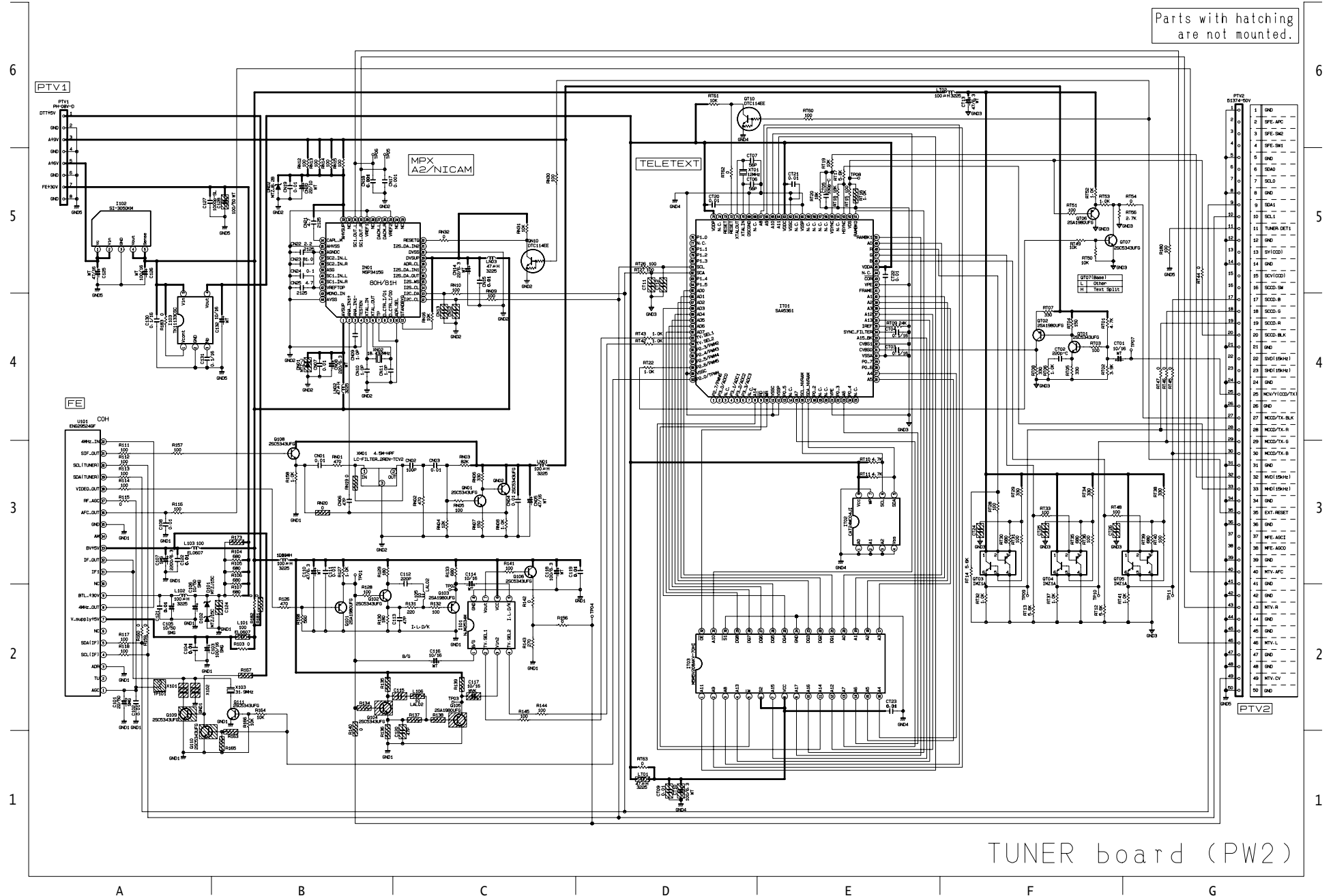
Parts with hatching
are not mounted.

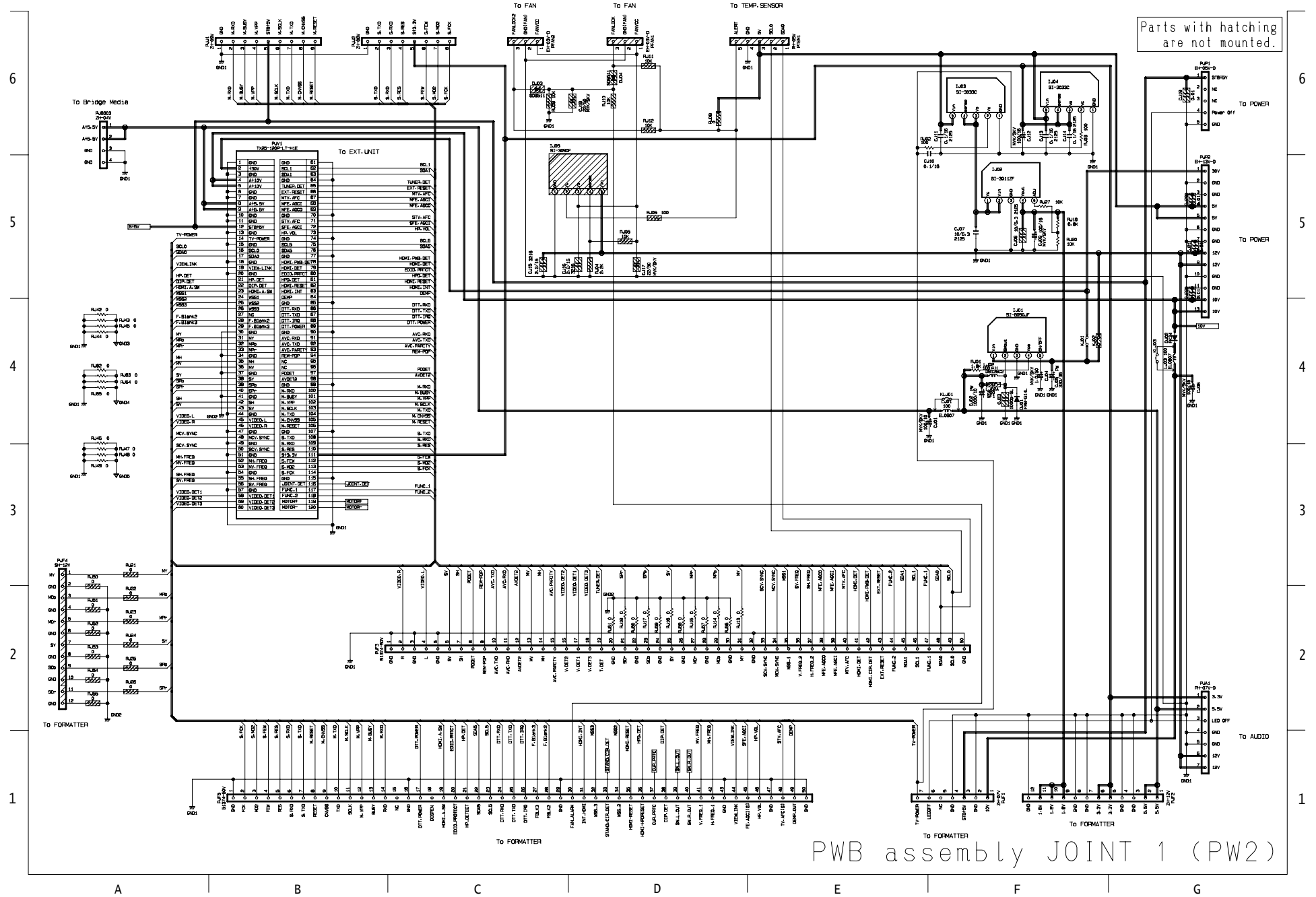
VIDEO board 2 (PW2)

Parts with hatching
are not mounted.

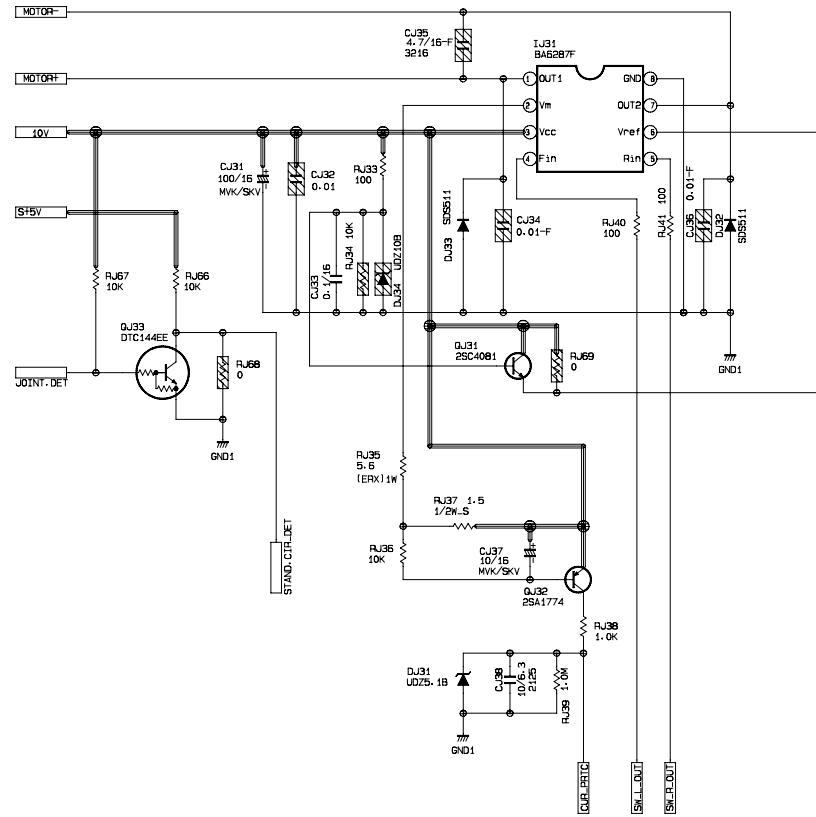
VIDEO board 3 (PW2)





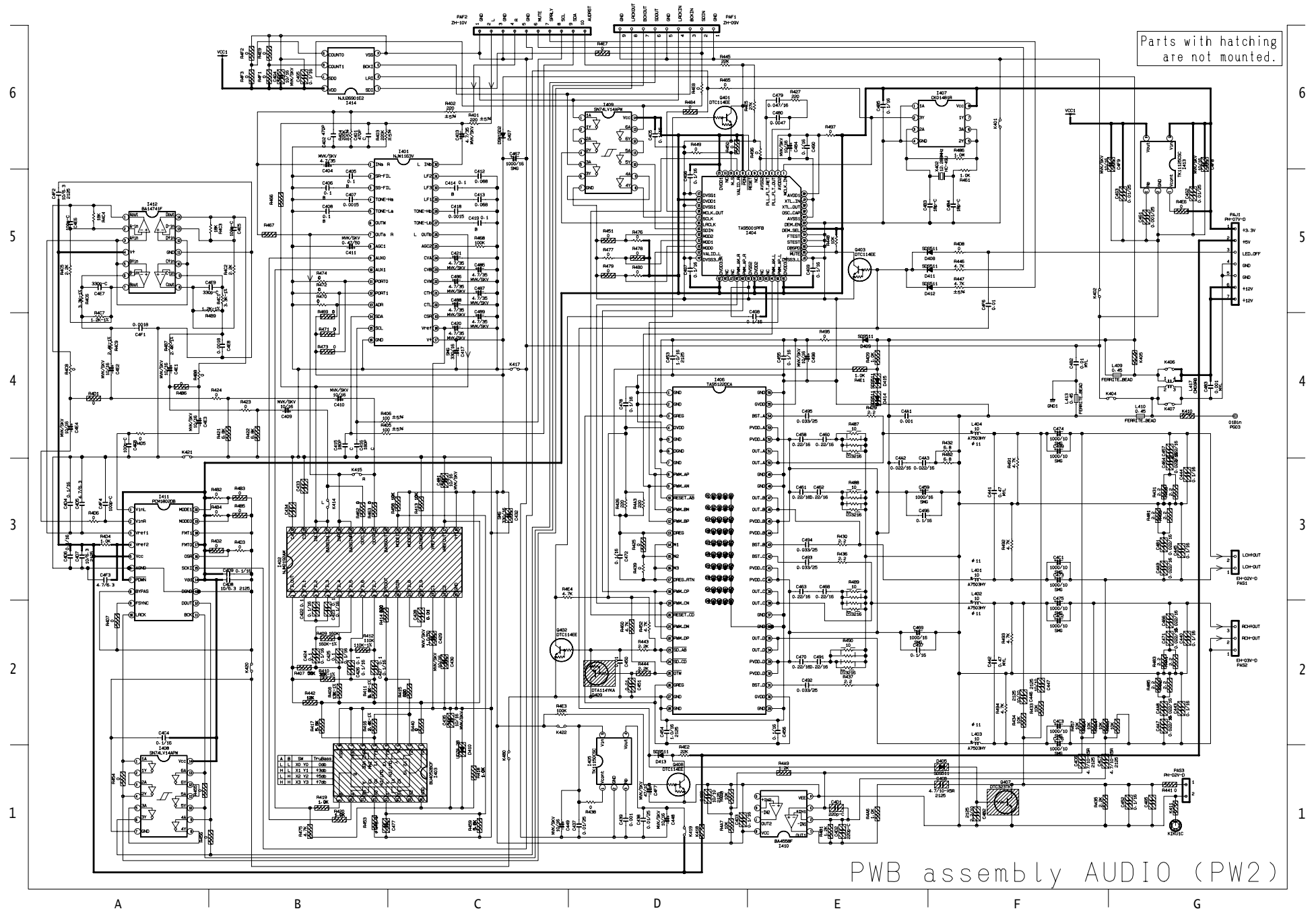


Parts with hatching
are not mounted.



UJ31	
FIN/IN1	RIN/INP
L	H
H	L
H	H
L	L

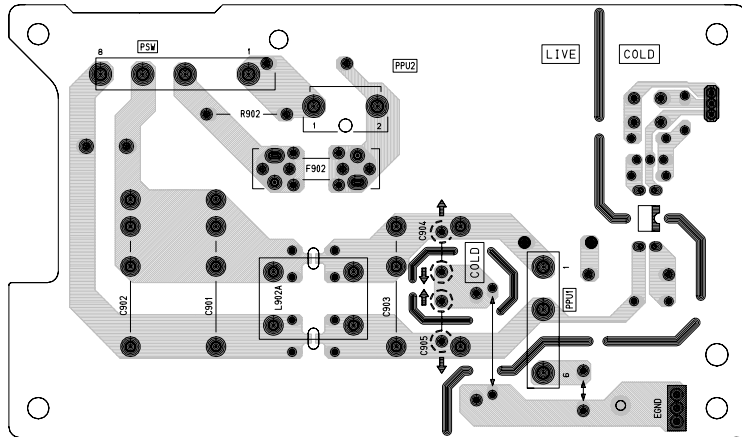
PWB assembly JOINT 2 (PW2)



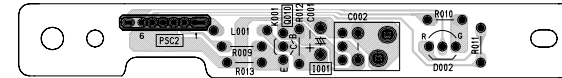


10. Printed wiring board diagram

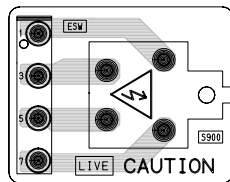
FILTER board



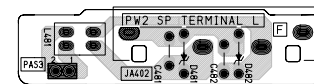
LED/RECEIVER board



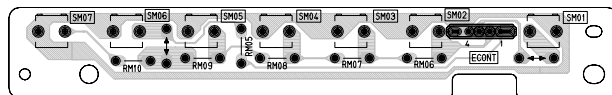
SW board



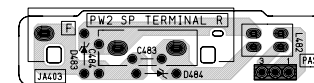
SP TERMINAL L board



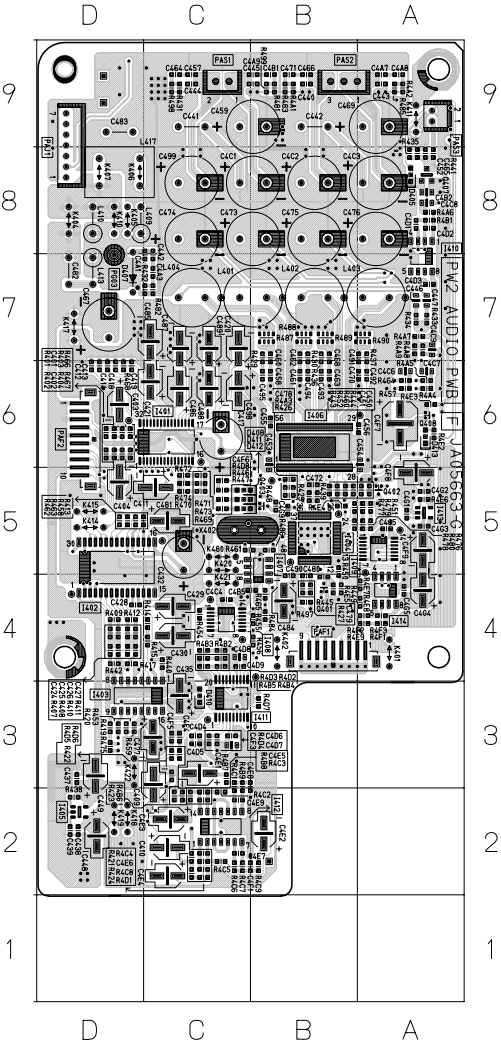
TACT SW board



SP TERMINAL R board



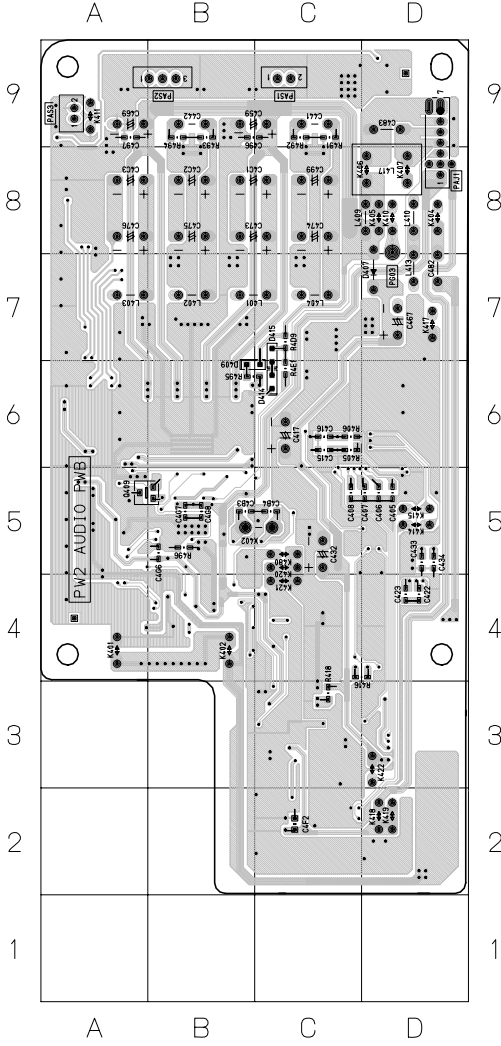
AUDIO board (side-A)



Mainly chip parts
reference table

CIR.No.	Position
D408	C5
D411	C5
D412	C5
I401	C6
I404	B5
I405	D2
I406	B6
I407	B5
I408	C4
I409	A5
I411	C3
I412	C2
PAF1	B4
PAF2	D6
Q401	B4
Q402	A5
Q403	B5

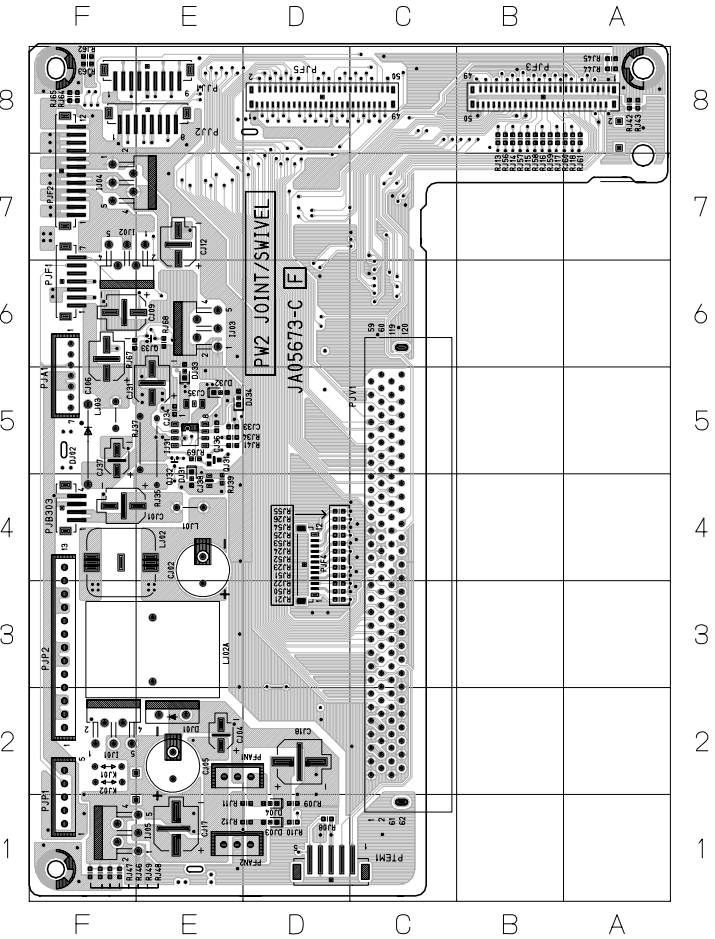
AUDIO board (side-B)



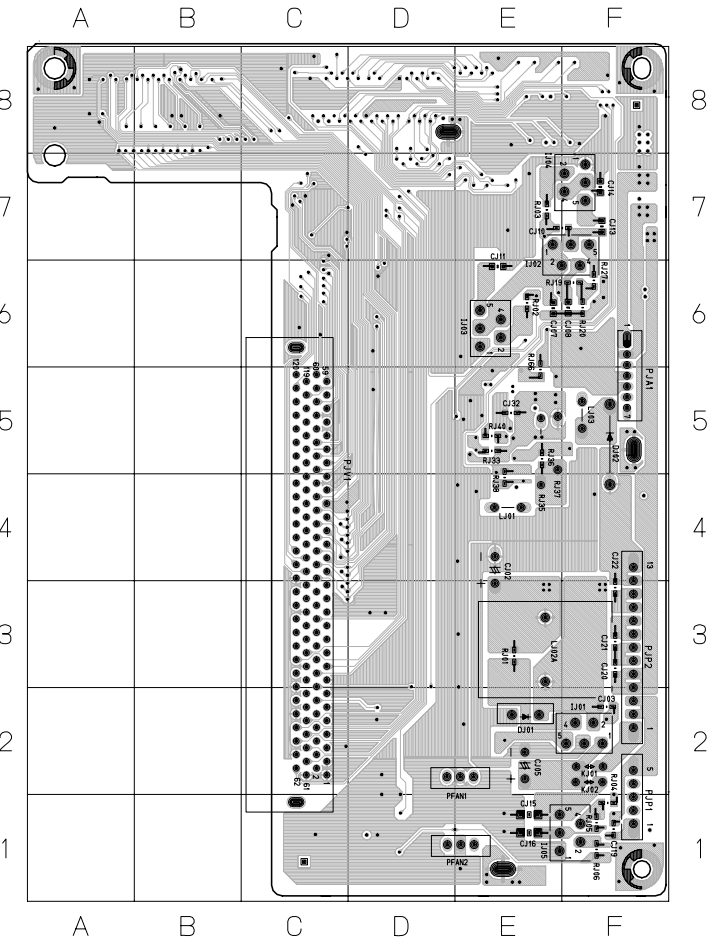
Mainly chip parts
reference table

CIR.No.	Position
D409	B6

JOINT board (side-A)



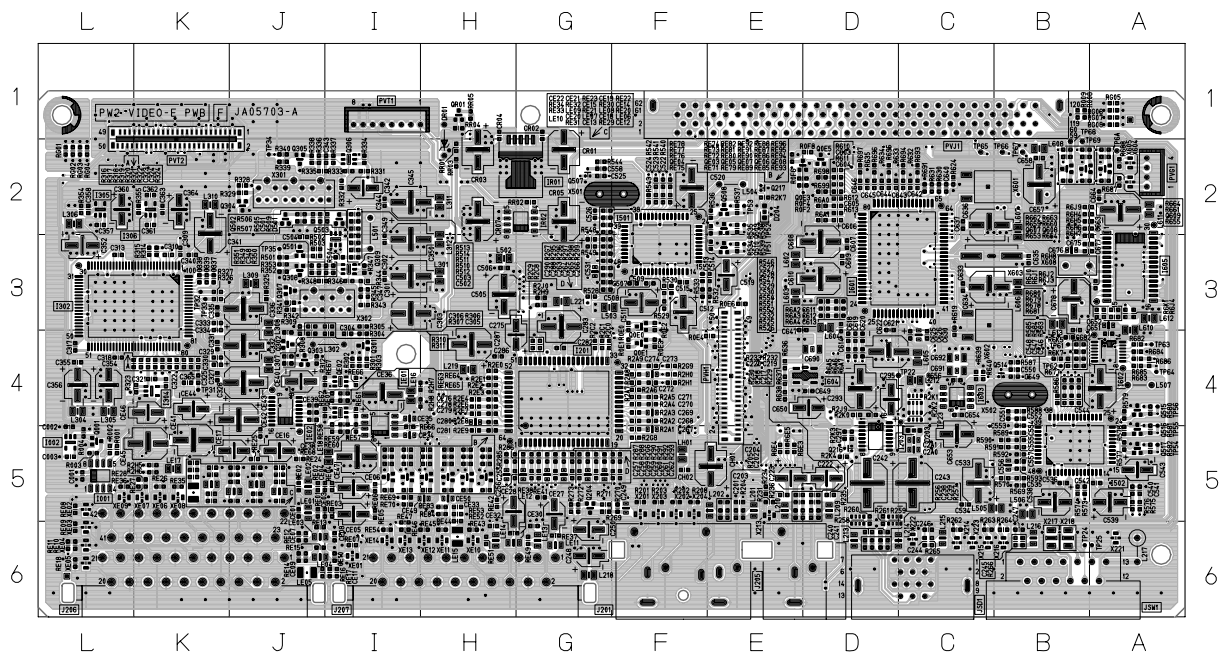
JOINT board (side-B)



Mainly chip parts reference table

CIR.No.	Position	CIR.No.	Position
DJ31	E4	PJ12	E8
DJ32	E5	QJ31	E5
DJ33	E5	QJ32	E5
IJ31	E5	QJ33	E6
PJF1	F6		
PJF2	F7		
PJF3	B8		
PJF5	D8		
PJJ1	E8		

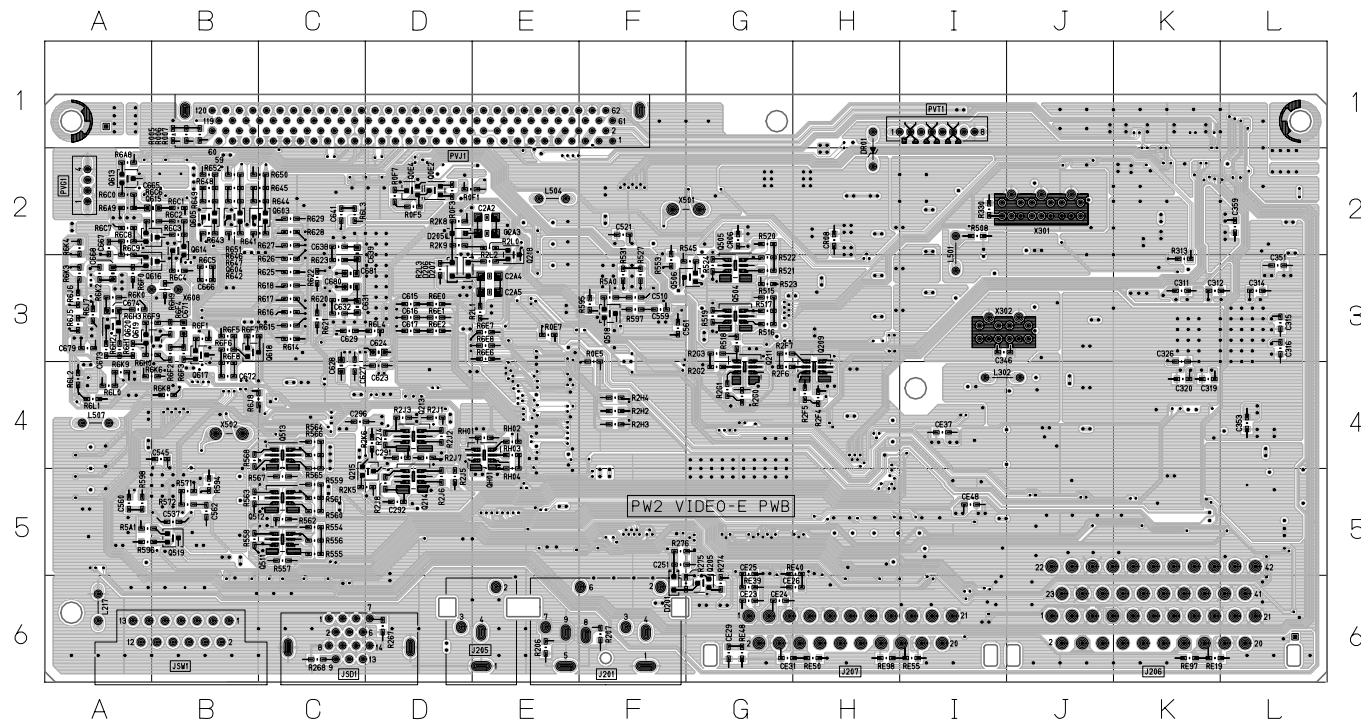
VIDEO board (side-A)



Mainly chip parts reference table

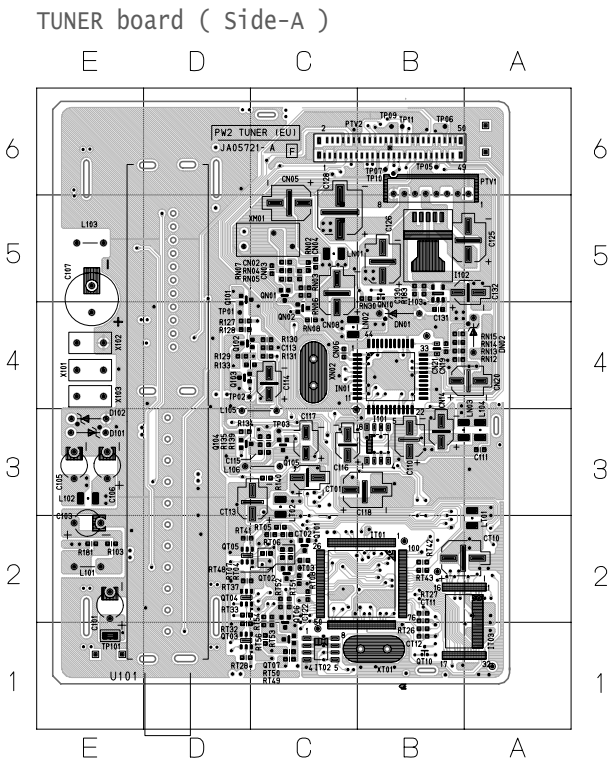
CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position
D203	C5	IE01	I5	L305	L4	L608	B2	LE14	H6	Q303	J4	Q607	B2	X215	C6	XE07	K5
D204	E2	IE02	J4	L306	L2	L610	A4	LE15	H6	Q304	J2	Q608	B2	X216	B6	XE08	K5
D501	I2	IR01	G2	L307	J4	L611	A2	LE16	I4	Q305	J2	Q609	A2	X217	B6	XE09	L5
I001	L5	IR02	G2	L308	J3	L612	A3	LE17	K5	Q306	I2	QE01	I4	X218	B6	XE10	H6
I002	L5	L201	E5	L309	J3	L613	B3	LE18	I5	Q307	J3	QE02	I4	X221	A6	XE11	H6
I201	G4	L202	E5	L310	K2	LE01	J5	LH01	F5	Q308	J3	QE03	I5	X222	C6	XE12	H6
I203	D5	L209	D5	L311	H2	LE02	J5	PVH1	E4	Q309	I3	QE04	I5	X223	C6	XE13	I6
I302	L3	L210	E5	L312	H3	LE03	J6	PVT2	K2	Q501	J3	QE05	H5	X601	C2	XE14	I6
I304	K4	L212	C4	L502	H3	LE04	J6	Q001	L5	Q502	J2	QE06	H5	X602	C3		
I305	L2	L213	D6	L503	G3	LE05	J6	Q0E0	F3	Q503	I3	QE07	H5	X603	C3		
I306	K2	L214	D6	L505	B5	LE06	J5	Q0E1	F4	Q507	G2	QE08	H5	X604	A2		
I501	F3	L215	C6	L506	B5	LE07	J5	Q0E3	E2	Q508	E2	QR01	H1	X605	A2		
I502	B5	L216	B6	L602	E3	LE08	J5	Q0E5	D2	Q509	E2	X201	F5	XE01	I6		
I601	C3	L218	G6	L603	E3	LE09	K5	Q204	G5	Q510	E3	X202	F5	XE02	L5		
I602	A4	L219	H4	L604	D3	LE10	K5	Q216	D5	Q514	B4	X203	F5	XE03	L6		
I603	C4	L221	G3	L605	C4	LE11	G6	Q217	E2	Q515	A4	X204	F5	XE04	L6		
I604	D4	L301	H3	L606	B3	LE12	H6	Q301	I4	Q516	A5	X213	E5	XE05	L6		
I605	A3	L304	L4	L607	B2	LE13	G6	Q302	J4	Q517	A5	X214	C6	XE06	K5		

VIDEO board (side-B)



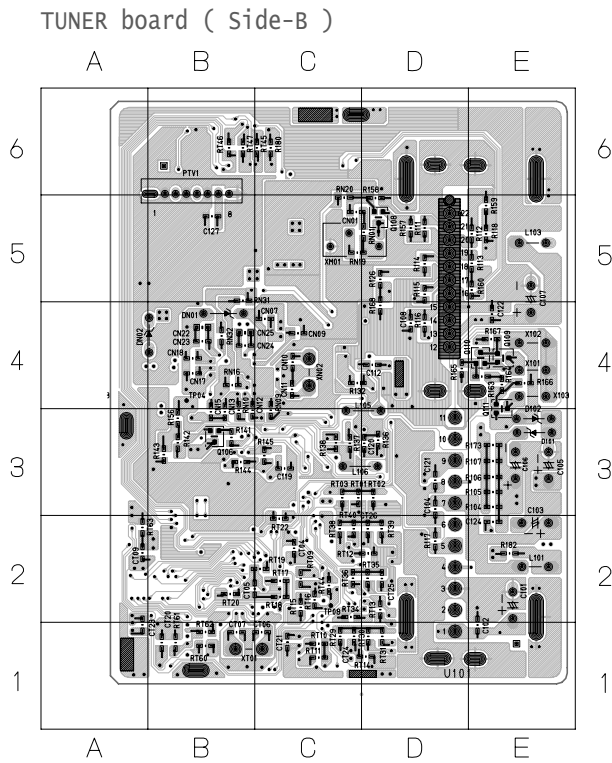
Mainly chip parts reference table

CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position
D201	F6	Q213	D4	Q513	C4	Q616	B3
D205	D2	Q214	D5	Q518	F3	Q617	B3
D206	D3	Q215	D5	Q519	B5	Q618	B3
D207	D3	Q218	E3	Q603	C2	Q619	B3
Q0E2	D2	Q504	G3	Q604	B2	Q620	A3
Q0E4	D2	Q505	G3	Q605	B2	QH01	E4
Q205	G6	Q506	G3	Q613	A2		
Q209	H4	Q511	C5	Q614	B2		
Q211	G4	Q512	C5	Q615	B2		



Mainly chip parts reference table

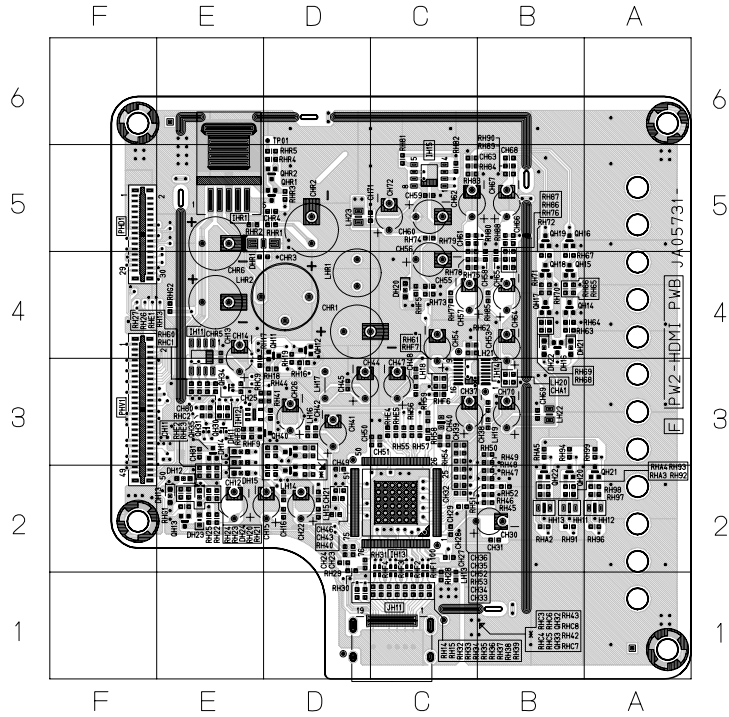
CIR.No.	Position	CIR.No.	Position
I101	B3	LT02	C3
I102	B5	PTV2	B6
I103	B5	Q101	D5
IN01	B4	Q102	D4
IT01	B2	Q103	D4
IT02	C1	Q104	D3
IT03	B2	Q105	C3
L102	E3	QN01	C5
L104	A3	QN02	C4
LN01	C5	QN10	B5
LN02	C4	QT01	C2
LN03	B3	QT02	C2
LT01	A2	QT03	D1



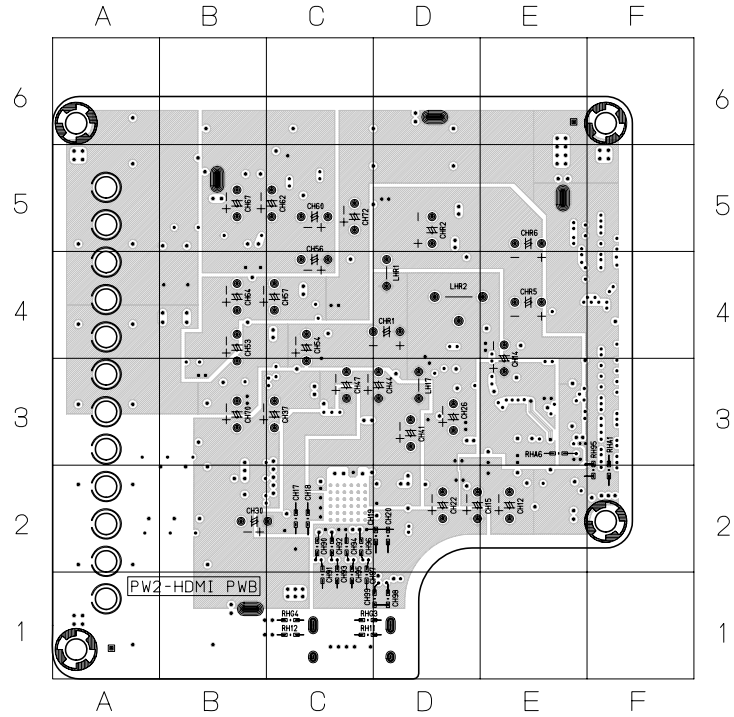
Mainly chip parts reference table

CIR.No.	Position
Q106	B3
Q108	D5
Q109	E4
Q110	E4
Q111	E4

HDMI board (Side-A)



HDMI board (Side-B)



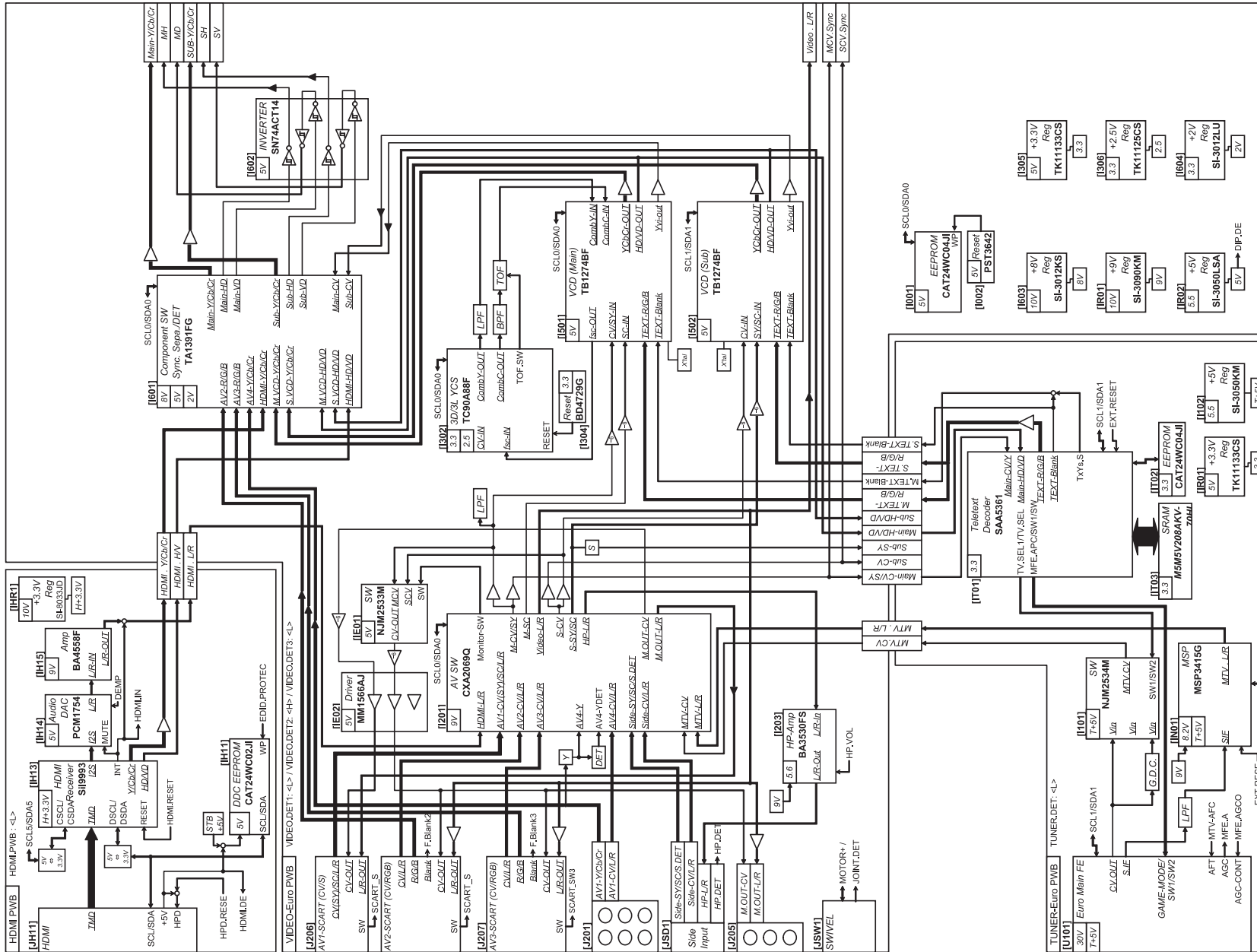
Mainly chip parts reference table (Side-A)

CIR.No.	Position	CIR.No.	Position	CIR.No.	Position	CIR.No.	Position
DH11	E3	IH11	E4	LH18	C3	QH18	B4
DH12	E2	IH12	E3	LH19	B3	QH19	B5
DH13	E2	IH13	C2	LH20	B3	QH20	B2
DH14	E3	IH14	C3	LH21	C4	QH21	A2
DH15	E2	IH15	C5	LH22	B3	QH22	B2
DH16	B4	IHR1	E5	LH23	D5	QH30	E3
DH20	C4	JH11	C1	PHD1	F5	QH31	E3
DH21	B4	KIKU1C	F2	PHV1	F3	QH32	D3
DH22	B4	KIKU2C	A1	QH11	D4	QH33	D2
DH23	E2	KIKU3C	F6	QH12	D4	QH34	E3
DH24	E2	KIKU4C	A6	QH13	E2	QH35	E3
DHR1	E5	LH13	C1	QH14	B4	QH40	D3
HH11	B2	LH14	D2	QH15	B4	QHR1	D5
HH12	A2	LH15	D2	QH16	B5	QHR2	D5
HH13	B2	LH16	D3	QH17	B4	TP01	D6

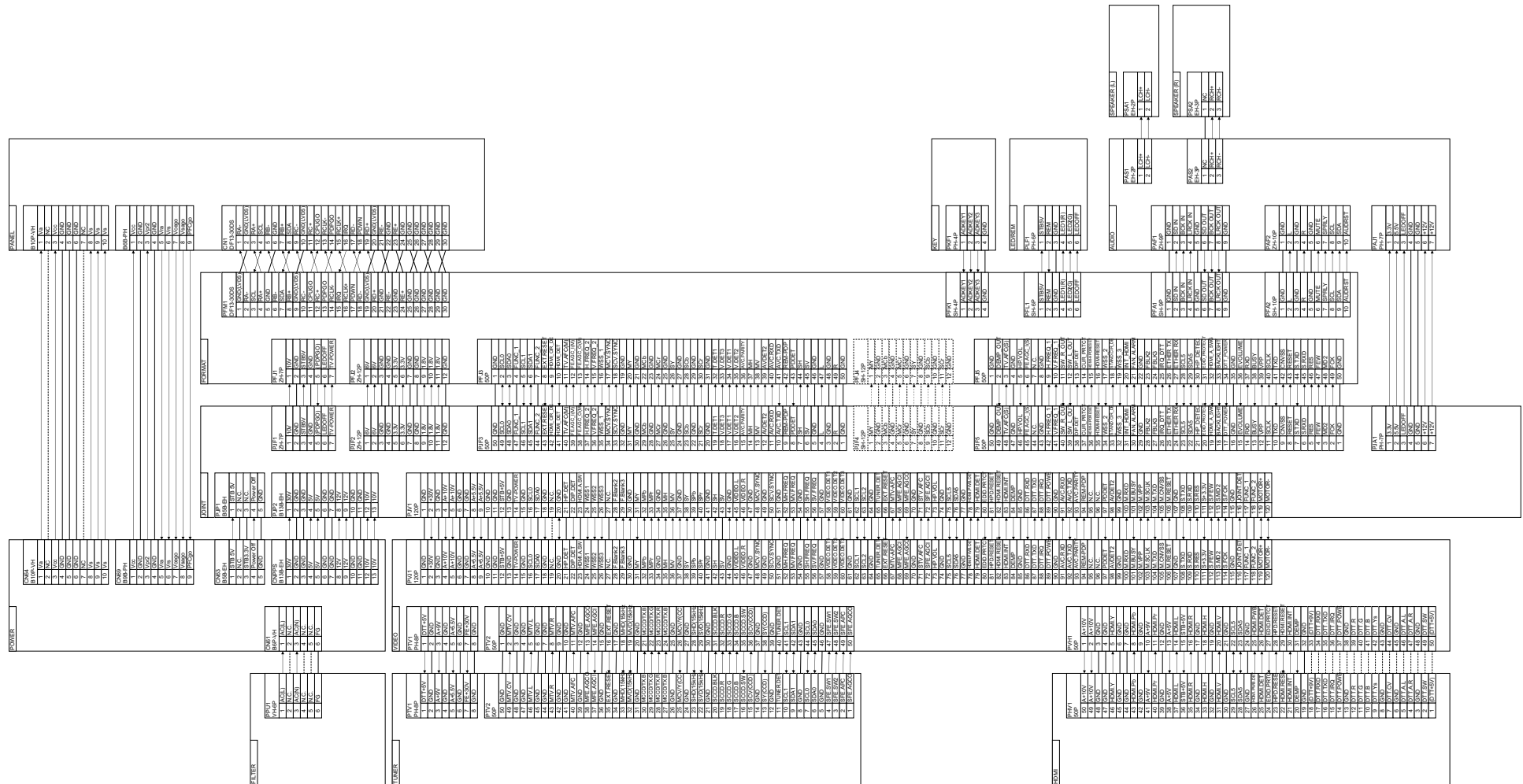
Mainly chip parts reference table (Side-B)

CIR.No.	Position
KIKU1S	F2
KIKU2S	F6
KIKU3S	A6
KIKU4S	A1

11. Block diagram

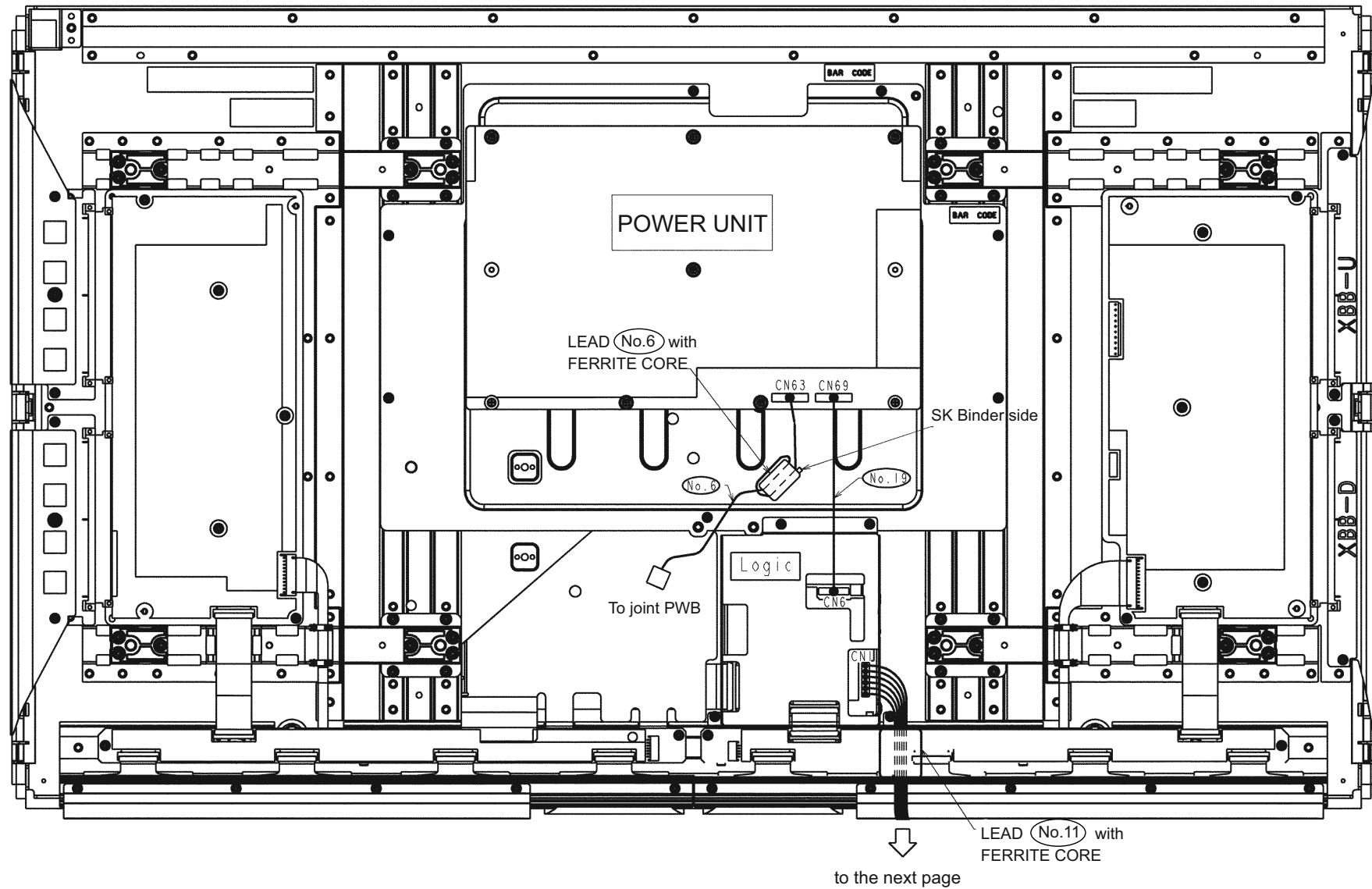


12. Connection diagram

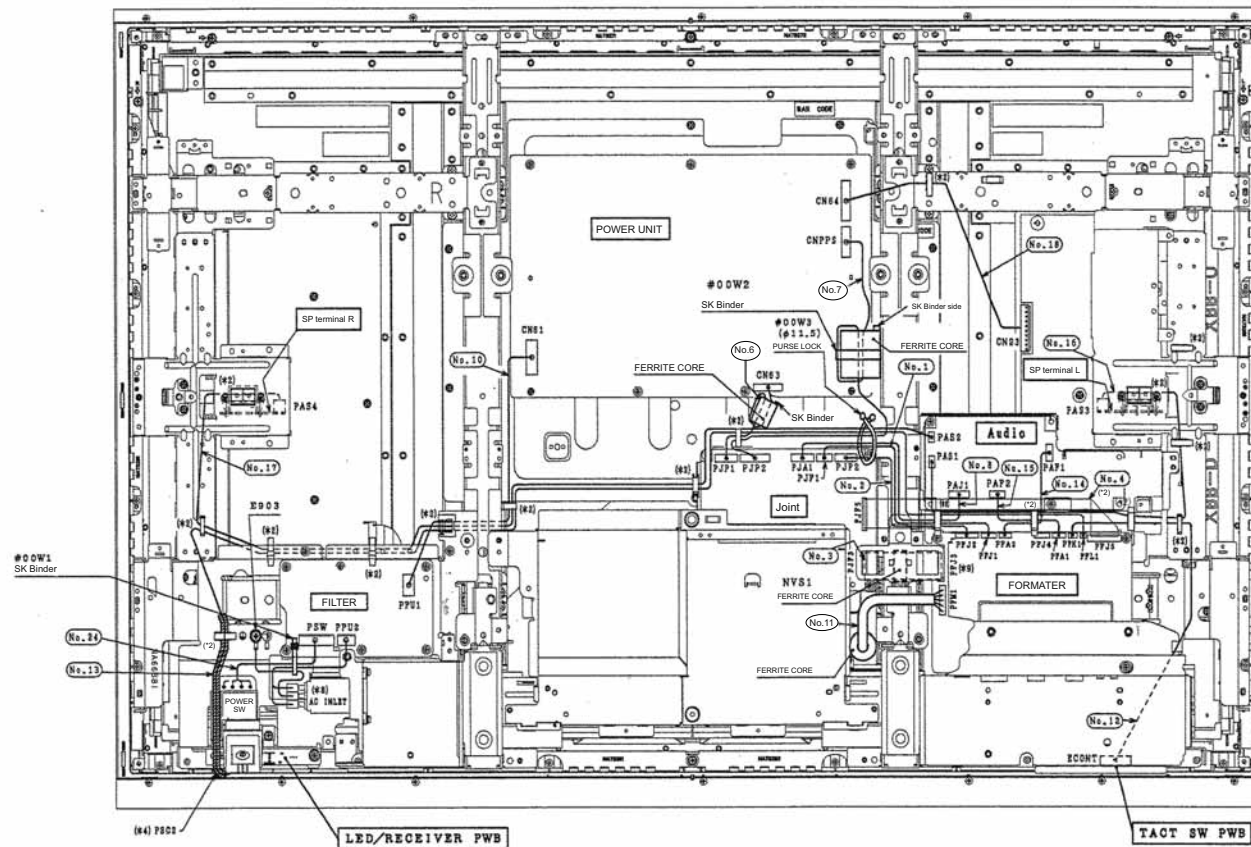


13. Wiring diagram

wiring diagram for 42PD7200 1/2

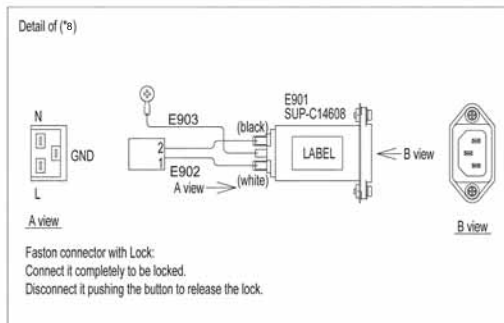
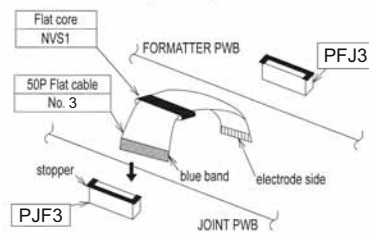


wiring diagram for 42PD7200 2/2



Detail (*2)
Clamp the wire as wiring diagram.

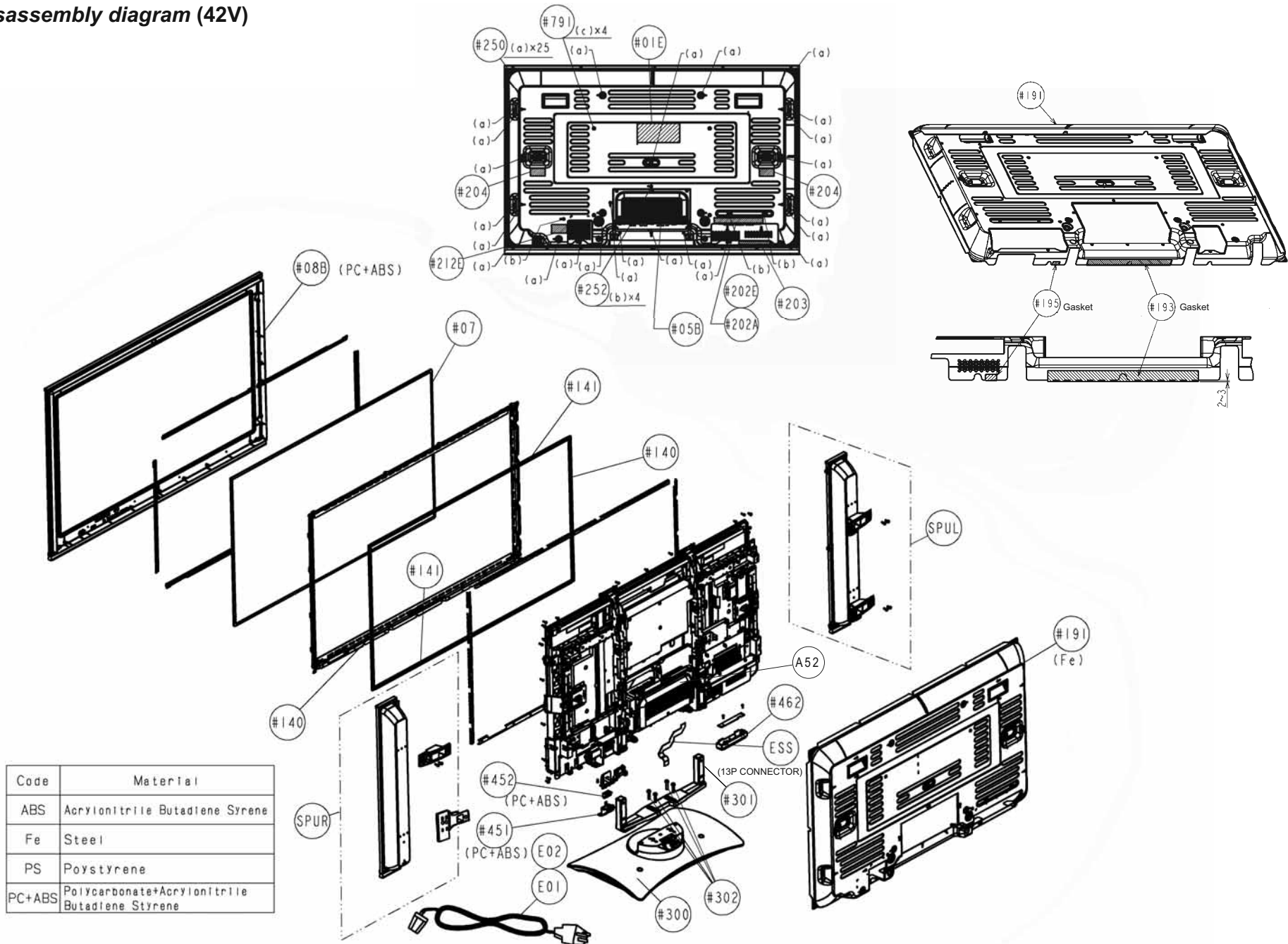
Detail of (*9)
Pass No.12 connector through NVS1.
Insert it in E/JF3/EFJ3 and push the stopper down to lock.



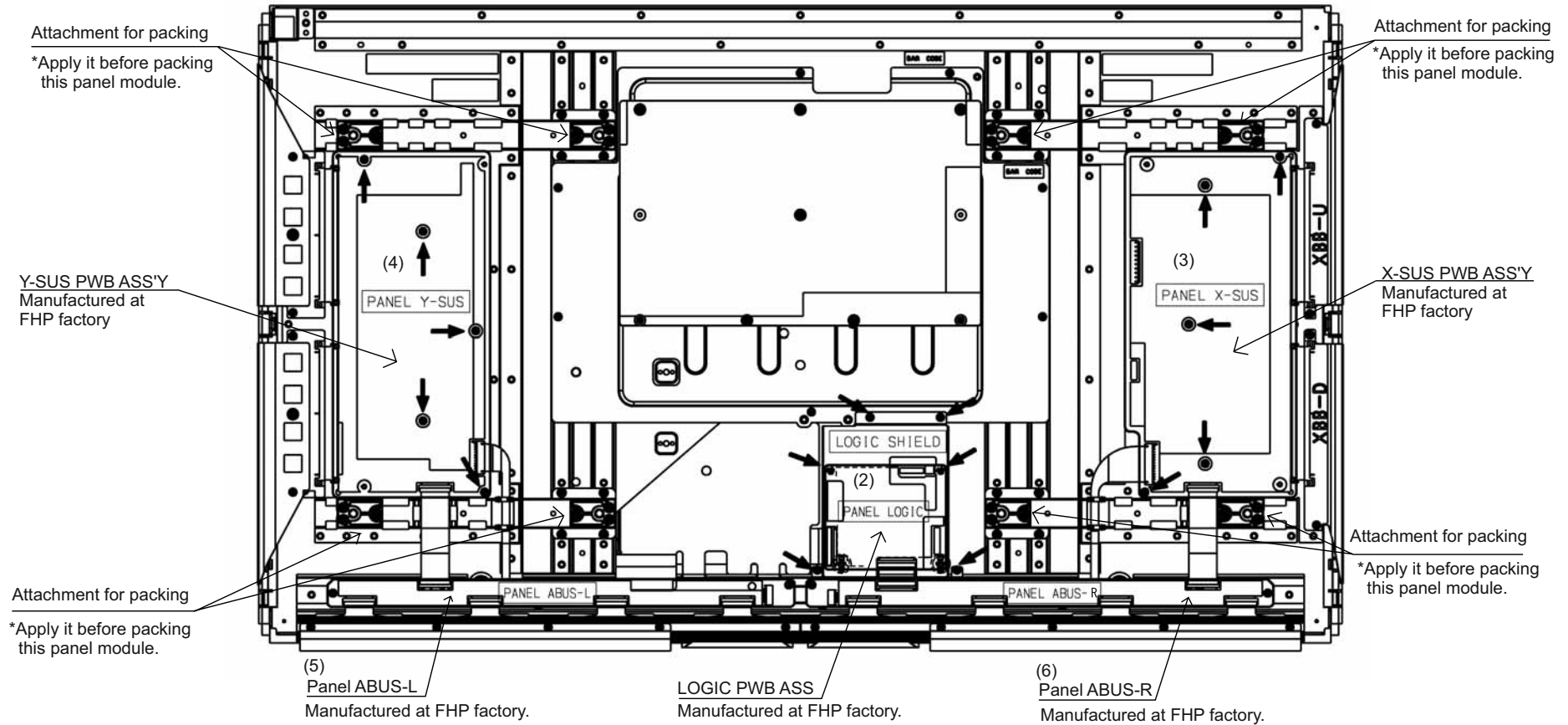
Detail of (*4)



Disassembly diagram (42V)



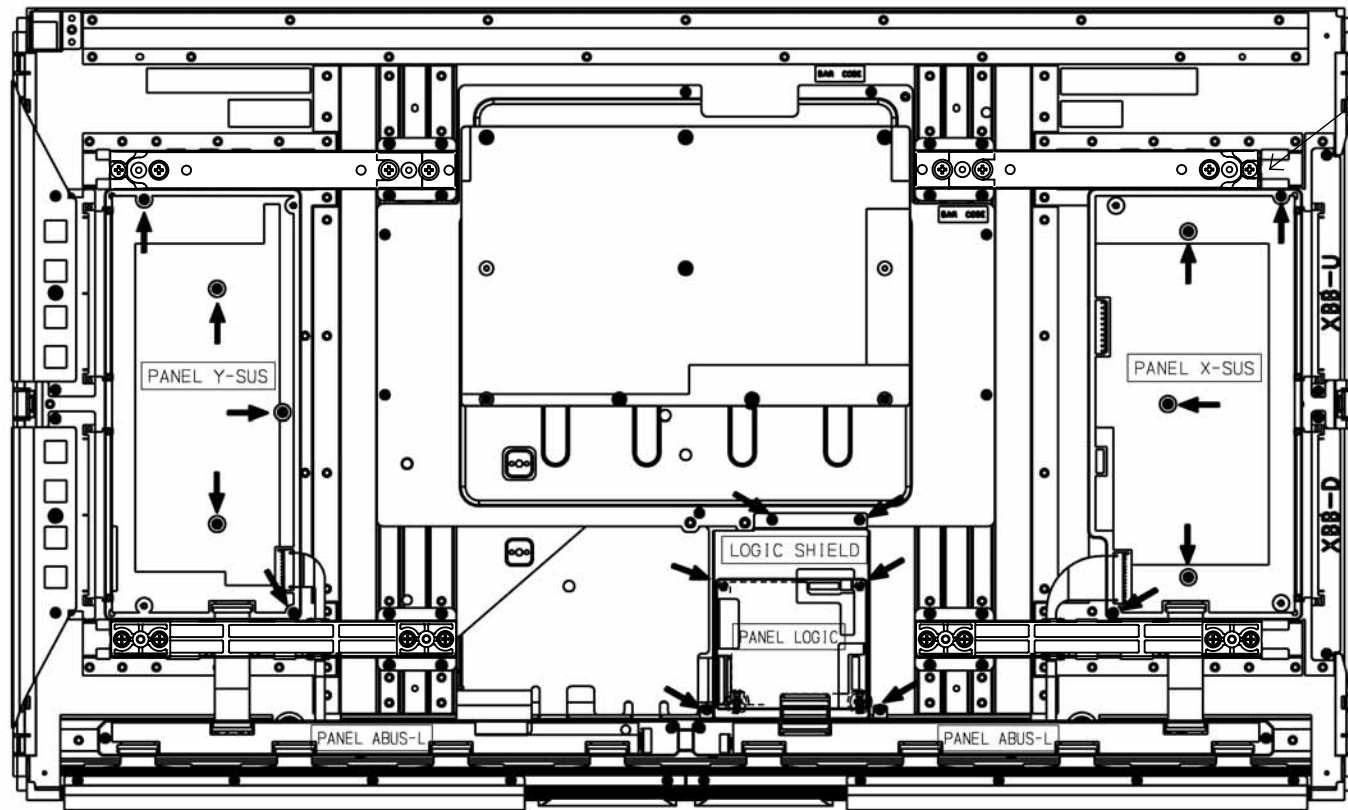
The figure of FHP Panel Module (42V)
 (Rear view
 The state of a panel simple substance.)



No.	Spare Part Name	FHP Spare Part#
(1)	Panel Module	FPF42C128128UD-55
(2)	LOGIC PWB Ass'y	FPF28R-LGC0045
(3)	X-SUS PWB Ass'y	FPF28R-XSS0026
(4)	Y-SUS PWB Ass'y	FPF28R-YSS0027
(5)	A-BUS L PWB Ass'y	FPF28R-ABL0019
(6)	A-BUS R PWB Ass'y	FPF28R-ABR0020

Panel Module (42V)

[The assembled form in a product (before servicing)]



Joint Holder X8

*Remove these holders
and apply the handles/
attachment for packing.

**THE UPDATED PARTS LIST
FOR THIS MODEL IS
AVAILABLE ON ESTA**

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